

GenCore version 5.1.7  
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OM protein - protein search, using bw model

Run on: March 28, 2006, 19:14:51 ; Search time 24 Seconds  
(without alignments)  
17.205 Million cell updates/sec

Title: US-10-706-275A-1  
Perfect score: 64  
Sequence: 1 ASREAKKQVEKALE 14

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 174695 seqs, 29494374 residues

Total number of hits satisfying chosen parameters: 174695

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :

1: Published Applications\_AA\_New:\*  
2: /SIDS5/ptodata/1/pubppaa/US06\_NEW\_PUB.pep:\*  
3: /SIDS5/ptodata/1/pubppaa/US07\_NEW\_PUB.pep:\*  
4: /SIDS5/ptodata/1/pubppaa/PCT\_NEW\_PUB.pep:\*  
5: /SIDS5/ptodata/1/pubppaa/US09\_NEW\_PUB.pep:\*  
6: /SIDS5/ptodata/1/pubppaa/US10\_NEW\_PUB.pep:\*  
7: /SIDS5/ptodata/1/pubppaa/US11\_NEW\_PUB.pep:\*  
8: /SIDS5/ptodata/1/pubppaa/US60\_NEW\_PUB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	44	68.8	153	6	US-10-467-657-7674 Sequence 7674, App
2	44	68.8	153	6	US-10-467-657-8432 Sequence 8432, App
3	44	68.8	694	7	US-11-098-686-10456 Sequence 10456, App
4	42	65.6	394	6	US-10-821-234-1626 Sequence 1626, App
5	42	65.6	864	7	US-11-053-100-58 Sequence 58, App
6	40	62.5	284	6	US-10-131-826A-118 Sequence 118, App
7	40	62.5	284	6	US-10-973-115B-118 Sequence 118, App
8	39	60.9	392	6	US-10-453-372-632 Sequence 632, App
9	39	60.9	392	6	US-10-453-372-634 Sequence 634, App
10	39	60.9	396	6	US-10-453-372-620 Sequence 620, App
11	39	60.9	442	6	US-10-453-372-618 Sequence 618, App
12	39	60.9	442	6	US-10-453-372-626 Sequence 626, App
13	39	60.9	442	6	US-10-453-372-628 Sequence 628, App
14	39	60.9	442	6	US-10-453-372-630 Sequence 630, App
15	39	60.9	442	6	US-10-453-372-636 Sequence 636, App
16	39	60.9	442	6	US-10-877-346-19 Sequence 19, App
17	39	60.9	442	6	US-10-877-346-21 Sequence 21, App
18	39	60.9	442	6	US-10-877-346-23 Sequence 23, App
19	39	60.9	442	6	US-10-877-346-55 Sequence 55, App
20	39	60.9	442	6	US-10-877-346-56 Sequence 56, App
21	39	60.9	459	6	US-10-821-234-896 Sequence 896, App
22	39	60.9	468	6	US-10-453-372-624 Sequence 624, App
23	39	60.9	470	6	US-10-453-372-622 Sequence 622, App
24	39	60.9	611	6	US-10-330-773-553 Sequence 553, App
25	38	59.4	2760	7	US-11-124-367A-444 Sequence 444, App

26	38	59.4	2803	7	US-11-124-367A-442 Sequence 442, App
27	38	59.4	2803	7	US-11-124-367A-445 Sequence 445, App
28	38	59.4	2984	7	US-11-124-367A-443 Sequence 443, App
29	38	59.4	3027	7	US-11-124-367A-441 Sequence 441, App
30	37	57.8	132	7	US-11-096-568A-24630 Sequence 24630, App
31	37	57.8	132	7	US-11-096-568A-24629 Sequence 24629, App
32	37	57.8	145	7	US-11-096-568A-24628 Sequence 24628, App
33	37	57.8	200	6	US-10-793-626-1186 Sequence 1186, App
34	37	57.8	200	6	US-10-793-626-2390 Sequence 2390, App
35	37	57.8	355	7	US-11-087-099-11843 Sequence 11843, App
36	36	56.2	199	7	US-11-096-568A-3496 Sequence 3496, App
37	36	56.2	217	7	US-11-096-568A-3495 Sequence 3495, App
38	36	56.2	269	7	US-11-096-568A-32889 Sequence 32889, App
39	36	56.2	350	7	US-11-096-568A-32888 Sequence 32888, App
40	36	56.2	368	7	US-11-096-568A-32887 Sequence 32887, App
41	36	56.2	567	6	US-10-330-773-556 Sequence 556, App
42	36	56.2	582	6	US-10-330-773-555 Sequence 555, App
43	36	56.2	897	7	US-11-087-099-8319 Sequence 8319, App
44	36	56.2	1285	7	US-11-206-071-2 Sequence 2, App
45	35	54.7	107	6	US-10-867-662-2 Sequence 2, App
46	35	54.7	114	6	US-10-867-662-2 Sequence 2, App
47	35	54.7	121	6	US-10-867-662-2 Sequence 2, App
48	35	54.7	128	6	US-10-867-662-8 Sequence 8, App
49	35	54.7	161	7	US-11-096-568A-8876 Sequence 8876, App
50	35	54.7	171	7	US-11-096-568A-8875 Sequence 8875, App
51	35	54.7	195	7	US-11-098-686-10945 Sequence 10945, App
52	35	54.7	229	7	US-11-096-568A-20262 Sequence 20262, App
53	35	54.7	255	7	US-11-096-568A-33925 Sequence 33925, App
54	35	54.7	263	7	US-11-096-568A-33924 Sequence 33924, App
55	35	54.7	266	7	US-11-096-568A-8874 Sequence 8874, App
56	35	54.7	266	7	US-11-096-568A-8877 Sequence 8877, App
57	35	54.7	281	7	US-11-179-977-5 Sequence 5, App
58	35	54.7	285	7	US-11-096-568A-33923 Sequence 33923, App
59	35	54.7	337	7	US-11-126-313-20 Sequence 20, App
60	35	54.7	337	7	US-11-126-313-21 Sequence 21, App
61	35	54.7	354	7	US-11-189-817-2 Sequence 2, App
62	35	54.7	365	6	US-11-052-554A-79 Sequence 79, App
63	35	54.7	394	7	US-11-087-099-4318 Sequence 4318, App
64	35	54.7	400	7	US-11-087-099-4318 Sequence 4318, App
65	35	54.7	403	7	US-11-087-099-10237 Sequence 10237, App
66	35	54.7	425	7	US-11-037-243-92 Sequence 92, App
67	35	54.7	452	7	US-11-087-099-2046 Sequence 2046, App
68	35	54.7	568	6	US-10-714-887-224 Sequence 224, App
69	35	54.7	606	7	US-11-126-313-23 Sequence 23, App
70	35	54.7	1786	7	US-11-196-400-3 Sequence 3, App
71	35	54.7	143	6	US-10-510-386-90 Sequence 90, App
72	34	53.1	149	6	US-10-454-437-258 Sequence 258, App
73	34	53.1	276	7	US-11-072-512-3850 Sequence 3850, App
74	34	53.1	291	7	US-11-096-568A-32680 Sequence 32680, App
75	34	53.1	343	7	US-11-096-568A-32679 Sequence 32679, App
76	34	53.1	353	7	US-11-096-568A-32678 Sequence 32678, App
77	34	53.1	366	6	US-10-510-386-42 Sequence 42, App
78	34	53.1	373	7	US-11-096-568A-22129 Sequence 22129, App
79	34	53.1	377	7	US-11-096-568A-10980 Sequence 10980, App
80	34	53.1	412	7	US-11-096-568A-22128 Sequence 22128, App
81	34	53.1	413	7	US-11-096-568A-10979 Sequence 10979, App
82	34	53.1	414	7	US-11-072-512-3443 Sequence 3443, App
83	34	53.1	625	6	US-10-510-386-6 Sequence 6, App
84	34	53.1	693	6	US-10-873-288-185 Sequence 185, App
85	34	53.1	701	7	US-11-052-554A-231 Sequence 231, App
86	34	53.1	706	7	US-11-087-099-5548 Sequence 5548, App
87	34	53.1	902	7	US-11-098-686-11082 Sequence 11082, App
88	34	53.1	903	7	US-11-072-512-2951 Sequence 2951, App
89	34	53.1	934	7	US-11-098-686-10139 Sequence 10139, App
90	34	53.1	1141	7	US-11-072-512-2522 Sequence 2522, App
91	34	53.1	1440	7	US-11-096-568A-28130 Sequence 28130, App
92	34	53.1	1441	7	US-11-096-568A-28129 Sequence 28129, App
93	34	53.1	1449	7	US-11-052-554A-237 Sequence 237, App
94	34	53.1	1463	7	US-11-096-568A-14692 Sequence 14692, App
95	34	53.1	1473	7	US-11-096-568A-14691 Sequence 14691, App
96	34	53.1	1490	7	US-11-096-568A-28128 Sequence 28128, App
97	34	53.1	1529	7	US-11-096-568A-14690 Sequence 14690, App
98	34	53.1	2135	7	US-11-203-806A-12 Sequence 12, App

99	33.5	52.3	223	7	US-11-096-568A-7490	Sequence 7490, Ap	172	32	50.0	338	6	US-10-454-437-262	Sequence 262, App
100	33.5	52.3	304	7	US-11-096-568A-7489	Sequence 7489, Ap	173	32	50.0	338	7	US-11-055-822-286	Sequence 286, App
101	33.5	52.3	312	7	US-11-096-568A-7488	Sequence 7488, Ap	174	32	50.0	338	7	US-11-055-822-622	Sequence 622, App
102	33.5	52.3	336	6	US-10-821-234-957	Sequence 957, App	175	32	50.0	331	7	US-11-087-099-8815	Sequence 8815, Ap
103	33.5	52.3	576	6	US-10-530-340-512	Sequence 12, App1	176	32	50.0	361	7	US-11-040-595-2	Sequence 2, App11
104	33	51.6	98	7	US-11-082-381-11	Sequence 11, App1	177	32	50.0	376	7	US-11-087-099-2969	Sequence 2969, Ap
105	33	51.6	101	7	US-11-082-381-1	Sequence 1, App1	178	32	50.0	384	7	US-11-219-282-19	Sequence 19, App1
106	33	51.6	114	6	US-10-467-657-6068	Sequence 6068, Ap	179	32	50.0	385	7	US-11-096-568A-17325	Sequence 17325, A
107	33	51.6	114	6	US-10-867-662-10	Sequence 10, App1	180	32	50.0	386	7	US-11-096-568A-17324	Sequence 17324, A
108	33	51.6	115	7	US-11-172-740-2421	Sequence 2421, Ap	181	32	50.0	411	7	US-11-072-512-3452	Sequence 3452, Ap
109	33	51.6	144	6	US-10-508-263-40	Sequence 40, App1	182	32	50.0	444	6	US-10-878-556A-34	Sequence 34, App1
110	33	51.6	196	7	US-11-096-568A-24825	Sequence 24825, A	183	32	50.0	432	6	US-10-467-657-7234	Sequence 7234, Ap
111	33	51.6	211	7	US-11-096-568A-24824	Sequence 24824, A	184	32	50.0	445	7	US-11-087-099-11856	Sequence 11856, A
112	33	51.6	226	7	US-11-096-568A-16618	Sequence 16618, A	185	32	50.0	448	7	US-11-124-367A-2823	Sequence 282, App
113	33	51.6	236	7	US-11-096-568A-25135	Sequence 25135, A	186	32	50.0	449	7	US-11-096-568A-17323	Sequence 17323, A
114	33	51.6	275	7	US-11-096-568A-32304	Sequence 32304, A	187	32	50.0	472	7	US-11-169-041-156	Sequence 156, App
115	33	51.6	276	6	US-10-873-528-134	Sequence 134, App	188	32	50.0	473	7	US-11-152-366-34	Sequence 34, App1
116	33	51.6	299	7	US-11-156-084-47	Sequence 47, App1	189	32	50.0	514	6	US-10-821-234-1511	Sequence 1511, Ap
117	33	51.6	302	7	US-11-096-568A-25134	Sequence 25134, A	190	32	50.0	517	6	US-10-485-517-310	Sequence 310, App
118	33	51.6	308	7	US-11-172-740-1241	Sequence 1241, Ap	191	32	50.0	615	7	US-11-087-099-9430	Sequence 9420, App
119	33	51.6	319	7	US-11-096-568A-25133	Sequence 25133, A	192	32	50.0	626	7	US-11-072-512-2139	Sequence 2139, Ap
120	33	51.6	330	7	US-11-156-084-27	Sequence 27, App1	193	32	50.0	644	6	US-10-793-626-1436	Sequence 1436, Ap
121	33	51.6	330	7	US-11-156-084-48	Sequence 48, App1	194	32	50.0	653	6	US-10-821-234-1286	Sequence 1286, Ap
122	33	51.6	333	7	US-11-137-877-57	Sequence 57, App1	195	32	50.0	702	6	US-10-510-386-214	Sequence 214, App
123	33	51.6	364	7	US-11-096-568A-16617	Sequence 16617, A	196	32	50.0	718	6	US-10-878-556A-97	Sequence 97, App1
124	33	51.6	375	6	US-10-793-626-2918	Sequence 2918, Ap	197	32	50.0	745	7	US-11-087-099-5760	Sequence 5760, App
125	33	51.6	376	7	US-11-087-099-2815	Sequence 2815, Ap	198	32	50.0	746	7	US-11-074-176-314	Sequence 314, App
126	33	51.6	377	7	US-11-172-740-1748	Sequence 1748, Ap	199	32	50.0	749	7	US-11-074-176-54	Sequence 54, App1
127	33	51.6	383	7	US-11-096-568A-16616	Sequence 16616, A	200	32	50.0	801	7	US-11-200-2968-69	Sequence 69, App1
128	33	51.6	396	7	US-11-232-405A-38	Sequence 38, App1	201	32	50.0	805	7	US-11-108-539-2	Sequence 2, App11
129	33	51.6	416	6	US-10-793-626-1462	Sequence 1462, Ap	202	32	50.0	812	7	US-11-072-512-2027	Sequence 2027, Ap
130	33	51.6	434	6	US-10-510-386-174	Sequence 174, App	203	32	50.0	848	7	US-11-108-539-4	Sequence 4, App11
131	33	51.6	435	7	US-11-096-568A-32325	Sequence 32325, A	204	32	50.0	901	6	US-10-793-626-342	Sequence 342, App
132	33	51.6	445	6	US-10-467-657-1584	Sequence 1584, Ap	205	32	50.0	919	6	US-10-821-234-951	Sequence 951, App
133	33	51.6	495	7	US-11-099-687-34	Sequence 34, App1	206	32	50.0	1089	7	US-11-087-099-7653	Sequence 7653, Ap
134	33	51.6	504	7	US-11-087-099-1053	Sequence 1053, Ap	207	32	50.0	1095	6	US-10-793-626-3154	Sequence 3154, Ap
135	33	51.6	523	7	US-11-096-568A-15358	Sequence 15358, A	208	32	50.0	1212	6	US-10-501-035-374	Sequence 374, App
136	33	51.6	539	7	US-11-096-568A-32324	Sequence 32324, A	209	32	50.0	1214	7	US-11-096-568A-28242	Sequence 28242, A
137	33	51.6	540	7	US-11-096-568A-32323	Sequence 32323, A	210	32	50.0	1221	7	US-11-096-568A-29337	Sequence 29337, A
138	33	51.6	542	7	US-11-096-568A-34367	Sequence 34367, A	211	32	50.0	1222	7	US-11-096-568A-29241	Sequence 29241, A
139	33	51.6	623	7	US-11-096-568A-34366	Sequence 34366, A	212	32	50.0	1229	7	US-11-096-568A-29336	Sequence 29336, A
140	33	51.6	634	7	US-11-096-568A-15357	Sequence 15357, A	213	32	50.0	1240	7	US-11-096-568A-29240	Sequence 29240, A
141	33	51.6	635	7	US-11-096-568A-15356	Sequence 15356, A	214	32	50.0	1243	7	US-11-096-568A-29335	Sequence 29335, A
142	33	51.6	646	7	US-11-096-568A-34365	Sequence 34365, A	215	32	50.0	1268	6	US-10-995-561-918	Sequence 918, App
143	33	51.6	751	7	US-11-012-762-26	Sequence 26, App1	216	32	50.0	1268	6	US-10-995-561-919	Sequence 919, App
144	33	51.6	1343	7	US-11-115-639-37	Sequence 37, App1	217	32	50.0	1268	6	US-10-995-561-920	Sequence 920, App
145	33	51.6	1343	7	US-11-115-639-38	Sequence 38, App1	218	32	50.0	1279	6	US-11-096-568A-28552	Sequence 28552, A
146	33	51.6	1343	7	US-11-115-639-39	Sequence 39, App1	219	32	50.0	1310	7	US-11-096-568A-28551	Sequence 28551, A
147	33	51.6	1343	7	US-11-115-639-40	Sequence 40, App1	220	32	50.0	1358	7	US-11-096-568A-28550	Sequence 28550, A
148	33	51.6	1343	7	US-11-115-639-41	Sequence 41, App1	221	32	50.0	1358	7	US-11-096-568A-28550	Sequence 28550, A
149	33	51.6	1597	6	US-10-877-346-61	Sequence 41, App1	222	32	50.0	1368	6	US-10-501-035-350	Sequence 350, App
150	33	51.6	1641	6	US-10-877-346-60	Sequence 40, App1	223	32	50.0	1385	7	US-11-119-330-2	Sequence 2, App11
151	33	51.6	1960	7	US-11-069-834-48	Sequence 48, App1	224	32	50.0	1985	7	US-11-173-792-3	Sequence 3, App11
152	33	51.6	2053	6	US-10-877-346-11	Sequence 11, App1	225	32	50.0	1985	7	US-11-173-792-15	Sequence 15, App1
153	33	51.6	2066	6	US-10-877-346-9	Sequence 9, App1	226	32	50.0	1985	7	US-11-173-792-15	Sequence 15, App1
154	33	51.6	3748	7	US-11-132-686-8	Sequence 8, App1	227	32	49.2	410	7	US-11-159-428-10	Sequence 10, App1
155	33	51.6	3749	7	US-11-132-686-6	Sequence 6, App1	228	32	49.2	1855	7	US-11-096-568A-31249	Sequence 31249, A
156	33	51.6	3749	7	US-11-132-686-12	Sequence 12, App1	229	32	49.2	1885	7	US-11-096-568A-31248	Sequence 31248, A
157	33	51.6	3912	7	US-11-132-686-7	Sequence 7, App1	230	32	49.2	1992	7	US-11-096-568A-31247	Sequence 31247, A
158	33	51.6	3913	7	US-11-132-686-5	Sequence 5, App1	231	32	48.4	49	6	US-10-467-657-6150	Sequence 6150, Ap
159	33	51.6	3913	7	US-11-132-686-9	Sequence 9, App1	232	32	48.4	78	7	US-11-129-143-158	Sequence 158, App
160	32.5	50.8	1155	7	US-11-096-568A-10550	Sequence 10550, A	233	32	48.4	94	7	US-11-172-740-958	Sequence 958, App
161	32.5	50.0	12	5	US-09-801-540A-13	Sequence 13, App1	234	32	48.4	96	7	US-11-096-568A-7087	Sequence 7087, App
162	32	50.0	152	7	US-11-055-822-288	Sequence 288, App	235	32	48.4	102	7	US-11-014-842-43	Sequence 43, App1
163	32	50.0	152	7	US-11-055-822-624	Sequence 624, App	236	32	48.4	109	7	US-11-096-568A-7086	Sequence 7086, App
164	32	50.0	182	7	US-11-087-099-4716	Sequence 4716, App	237	32	48.4	115	7	US-11-172-740-2422	Sequence 2422, Ap
165	32	50.0	188	6	US-10-131-826A-2	Sequence 2, App1	238	32	48.4	118	6	US-10-510-386-136	Sequence 136, App
166	32	50.0	188	6	US-10-821-234-1316	Sequence 1316, App	239	32	48.4	122	7	US-11-096-568A-7085	Sequence 7085, App
167	32	50.0	188	6	US-10-973-115B-2	Sequence 2, App1	240	32	48.4	123	7	US-11-087-099-414	Sequence 414, App
168	32	50.0	205	6	US-11-172-740-1459	Sequence 1459, App	241	32	48.4	124	7	US-11-096-568A-25116	Sequence 25116, A
169	32	50.0	239	6	US-10-821-234-1259	Sequence 1259, App	242	32	48.4	132	7	US-11-096-568A-2966	Sequence 2966, App
170	32	50.0	275	6	US-10-330-773-639	Sequence 639, App	243	32	48.4	133	7	US-11-096-568A-20141	Sequence 20141, A
171	32	50.0	325	7	US-11-052-554A-356	Sequence 356, App	244	32	48.4	132	7	US-11-096-568A-9572	Sequence 9572, App

245	31	48.4	152	7	US-11-096-568A-24420	Sequence 24420, A	318	31	48.4	482	7	US-11-065-716-5	Sequence 5, Appl1
246	31	48.4	160	5	US-09-978-360A-787	Sequence 787, App	319	31	48.4	490	7	US-11-065-716-16	Sequence 16, Appl
247	31	48.4	160	7	US-11-096-568A-2965	Sequence 2965, Ap	320	31	48.4	496	7	US-11-087-099-2202	Sequence 2202, Ap
248	31	48.4	165	6	US-10-330-773-971	Sequence 971, App	321	31	48.4	499	7	US-11-096-568A-5588	Sequence 5588, Ap
249	31	48.4	167	7	US-11-087-099-2529	Sequence 2529, Ap	322	31	48.4	509	7	US-11-065-716-1	Sequence 1, Appl1
250	31	48.4	169	6	US-10-821-234-1380	Sequence 1380, Ap	323	31	48.4	509	7	US-11-065-716-7	Sequence 7, Appl1
251	31	48.4	169	7	US-11-096-568A-5435	Sequence 5435, Ap	324	31	48.4	509	7	US-11-098-686-10996	Sequence 10996, A
252	31	48.4	169	7	US-11-172-740-1188	Sequence 1188, Ap	325	31	48.4	520	7	US-11-096-568A-25417	Sequence 25417, A
253	31	48.4	174	7	US-11-055-822-552	Sequence 552, App	326	31	48.4	526	7	US-11-072-512-3582	Sequence 3582, Ap
254	31	48.4	193	6	US-10-467-657-7464	Sequence 2644, Ap	327	31	48.4	545	7	US-11-096-568A-5587	Sequence 5587, Ap
255	31	48.4	198	7	US-11-096-568A-20140	Sequence 20140, A	328	31	48.4	545	7	US-11-096-568A-25416	Sequence 25416, A
256	31	48.4	206	7	US-11-096-568A-5434	Sequence 5434, Ap	329	31	48.4	546	7	US-11-072-512-2051	Sequence 2051, Ap
257	31	48.4	231	6	US-10-330-773-968	Sequence 968, App	330	31	48.4	554	7	US-11-098-686-11102	Sequence 11102, A
258	31	48.4	233	7	US-11-096-568A-9571	Sequence 9571, Ap	331	31	48.4	574	7	US-11-087-099-632	Sequence 632, App
259	31	48.4	233	7	US-11-096-568A-24419	Sequence 24419, A	332	31	48.4	577	7	US-11-072-175-187	Sequence 187, App
260	31	48.4	239	5	US-09-978-360A-659	Sequence 659, App	333	31	48.4	583	7	US-11-096-568A-25415	Sequence 25415, A
261	31	48.4	244	7	US-11-096-568A-2964	Sequence 2964, Ap	334	31	48.4	584	7	US-11-172-740-972	Sequence 972, App
262	31	48.4	244	7	US-11-096-568A-2964	Sequence 2967, Ap	335	31	48.4	618	7	US-11-072-512-3605	Sequence 3605, Ap
263	31	48.4	249	7	US-11-096-568A-20139	Sequence 20139, A	336	31	48.4	626	6	US-10-467-657-1772	Sequence 1772, Ap
264	31	48.4	255	7	US-11-072-512-3876	Sequence 3876, Ap	337	31	48.4	650	5	US-09-995-493-170	Sequence 170, App
265	31	48.4	256	7	US-11-087-099-7576	Sequence 7576, Ap	338	31	48.4	689	7	US-11-087-099-11650	Sequence 11650, A
266	31	48.4	266	6	US-10-873-528-165	Sequence 165, App	339	31	48.4	700	7	US-11-098-686-10793	Sequence 10793, A
267	31	48.4	269	7	US-11-087-099-11907	Sequence 11907, A	340	31	48.4	722	7	US-11-072-512-3474	Sequence 3474, Ap
268	31	48.4	270	6	US-10-491-468-4	Sequence 4, Appl1	341	31	48.4	768	6	US-10-330-773-959	Sequence 959, App
269	31	48.4	288	7	US-11-096-568A-33505	Sequence 33505, A	342	31	48.4	807	6	US-11-087-099-10455	Sequence 10455, A
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271	31	48.4	304	7	US-11-096-568A-33504	Sequence 33504, A	344	31	48.4	831	7	US-11-098-686-10875	Sequence 10875, A
272	31	48.4	304	7	US-11-172-740-1236	Sequence 1236, Ap	345	31	48.4	880	6	US-10-330-773-956	Sequence 956, App
273	31	48.4	313	6	US-10-873-528-163	Sequence 163, App	346	31	48.4	880	6	US-11-069-642-111	Sequence 11, App
274	31	48.4	322	6	US-10-689-742-46	Sequence 46, Appl	347	31	48.4	1011	7	US-11-087-099-11646	Sequence 11646, A
275	31	48.4	328	7	US-11-096-568A-3897	Sequence 3897, Ap	348	31	48.4	1085	7	US-11-052-554A-121	Sequence 121, App
276	31	48.4	334	7	US-11-096-568A-3896	Sequence 3896, Ap	349	31	48.4	1167	7	US-11-087-099-9112	Sequence 9112, App
277	31	48.4	334	7	US-11-172-740-45	Sequence 45, Appl	350	31	48.4	1316	7	US-11-091-643-4	Sequence 4, Appl1
278	31	48.4	337	7	US-11-087-099-6276	Sequence 6276, Ap	351	31	48.4	1332	7	US-11-091-643-18	Sequence 18, Appl
279	31	48.4	343	7	US-11-096-686-11280	Sequence 11280, A	352	31	48.4	1340	7	US-11-070-575-6	Sequence 6, Appl1
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281	31	48.4	360	7	US-11-172-740-1330	Sequence 1330, Ap	354	31	48.4	1347	7	US-11-087-099-5370	Sequence 5370, App
282	31	48.4	375	7	US-11-096-568A-10981	Sequence 10981, A	355	31	48.4	1386	7	US-11-091-643-6	Sequence 6, Appl1
283	31	48.4	378	7	US-11-096-568A-8228	Sequence 8228, Ap	356	31	48.4	1403	7	US-11-087-099-1219	Sequence 4219, Ap
284	31	48.4	378	7	US-11-172-740-1329	Sequence 1329, Ap	357	31	48.4	1404	6	US-10-878-556A-169	Sequence 169, App
285	31	48.4	385	6	US-11-073-626-386	Sequence 386, App	358	31	48.4	1732	6	US-10-055-877-147	Sequence 147, App
286	31	48.4	385	7	US-11-087-099-10386	Sequence 10386, A	359	31	48.4	1927	7	US-11-087-099-5472	Sequence 5472, App
287	31	48.4	388	7	US-11-096-568A-3895	Sequence 3895, Ap	360	31	48.4	2295	7	US-11-087-099-5450	Sequence 5450, App
288	31	48.4	410	7	US-11-096-568A-22880	Sequence 22820, A	361	31	48.4	2640	7	US-11-087-099-9331	Sequence 9331, Ap
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290	31	48.4	412	7	US-11-087-099-10106	Sequence 10106, A	363	31	48.4	8746	7	US-11-098-686-10232	Sequence 10232, A
291	31	48.4	413	7	US-11-096-568A-8227	Sequence 8227, Ap	364	30.5	47.7	861	7	US-11-096-568A-33917	Sequence 33917, A
292	31	48.4	414	7	US-11-089-551A-28	Sequence 28, Appl	365	30.5	47.7	881	7	US-11-096-568A-33916	Sequence 33916, A
293	31	48.4	417	7	US-11-087-099-1146	Sequence 1146, Ap	366	30.5	47.7	1069	7	US-11-096-568A-33915	Sequence 33915, A
294	31	48.4	418	6	US-10-995-561-753	Sequence 753, App	367	30.5	47.7	1081	7	US-11-142-700-29	Sequence 29, Appl
295	31	48.4	418	6	US-10-995-561-754	Sequence 754, App	368	30.5	47.7	1663	6	US-10-055-877-148	Sequence 148, App
296	31	48.4	418	6	US-10-995-561-755	Sequence 755, App	369	30	46.9	91	7	US-10-467-657-7092	Sequence 7092, Ap
297	31	48.4	418	6	US-10-995-561-756	Sequence 756, App	370	30	46.9	92	7	US-11-194-246-405	Sequence 405, App
298	31	48.4	418	6	US-10-995-561-757	Sequence 757, App	371	30	46.9	92	5	US-09-978-360A-754	Sequence 754, App
299	31	48.4	418	6	US-10-995-561-758	Sequence 758, App	372	30	46.9	92	7	US-11-000-463-741	Sequence 741, App
300	31	48.4	418	6	US-10-995-561-759	Sequence 759, App	373	30	46.9	105	7	US-11-096-568A-6190	Sequence 6190, App
301	31	48.4	418	7	US-11-177-506-27	Sequence 27, Appl	374	30	46.9	127	7	US-11-000-463-269	Sequence 269, App
302	31	48.4	418	7	US-11-183-205-22	Sequence 22, Appl	375	30	46.9	127	7	US-11-096-568A-5276	Sequence 5276, Ap
303	31	48.4	422	6	US-10-878-556A-172	Sequence 172, App	376	30	46.9	128	7	US-11-098-686-11175	Sequence 11175, A
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305	31	48.4	428	7	US-11-096-568A-22819	Sequence 22819, A	378	30	46.9	139	7	US-11-013-247A-11	Sequence 11, App
306	31	48.4	444	7	US-11-087-099-9103	Sequence 9103, A	379	30	46.9	140	7	US-11-098-686-10643	Sequence 10643, A
307	31	48.4	448	7	US-11-065-716-4	Sequence 4, Appl1	380	30	46.9	154	6	US-10-793-626-712	Sequence 712, App
308	31	48.4	448	7	US-11-096-568A-8226	Sequence 8226, Ap	381	30	46.9	158	7	US-11-087-099-2697	Sequence 2697, Ap
309	31	48.4	452	7	US-11-087-099-296	Sequence 296, App	382	30	46.9	158	7	US-11-087-099-6487	Sequence 6487, Ap
310	31	48.4	462	7	US-11-065-716-46	Sequence 46, Appl	383	30	46.9	160	7	US-11-098-686-10384	Sequence 10384, Ap
311	31	48.4	466	7	US-11-072-512-2410	Sequence 2410, Ap	384	30	46.9	165	7	US-11-098-686-10784	Sequence 10784, A
312	31	48.4	467	7	US-11-065-716-49	Sequence 49, Appl	385	30	46.9	166	7	US-11-087-099-7167	Sequence 7167, Ap
313	31	48.4	470	7	US-11-072-512-2022	Sequence 2022, Ap	386	30	46.9	168	7	US-11-096-568A-5275	Sequence 5275, Ap
314	31	48.4	474	7	US-11-065-716-3	Sequence 3, Appl1	387	30	46.9	176	7	US-11-096-568A-17197	Sequence 17197, Ap
315	31	48.4	474	7	US-11-222-641-8	Sequence 8, Appl1	388	30	46.9	180	7	US-11-087-099-10224	Sequence 10224, A
316	31	48.4	477	7	US-11-096-568A-32264	Sequence 32264, A	389	30	46.9	184	7	US-11-096-568A-7630	Sequence 7630, Ap
317	31	48.4	479	7	US-11-096-568A-5589	Sequence 5589, Ap	390	30	46.9	186	7	US-11-096-568A-1431	Sequence 1431, Ap

391	30	46.9	187	7	US-11-096-568A-32231	Sequence 32231, A	464	30	46.9	435	7	US-11-087-099-11623	Sequence 11623, A
392	30	46.9	190	7	US-11-096-568A-1997	Sequence 1997, Ap	465	30	46.9	448	7	US-11-013-247A-5	Sequence 5, Appl1
393	30	46.9	191	7	US-11-096-568A-7629	Sequence 7629, A	466	30	46.9	449	7	US-11-010-239-26	Sequence 26, Appl1
394	30	46.9	192	7	US-11-087-099-9855	Sequence 9855, Ap	467	30	46.9	449	7	US-11-177-506-32	Sequence 32, Appl1
395	30	46.9	194	7	US-11-096-568A-7628	Sequence 7628, Ap	468	30	46.9	447	7	US-11-096-568A-20970	Sequence 20970, A
396	30	46.9	198	6	US-10-467-657-162	Sequence 162, App	469	30	46.9	455	7	US-11-096-568A-25490	Sequence 25490, A
397	30	46.9	198	6	US-10-467-657-3058	Sequence 3058, Ap	470	30	46.9	457	7	US-11-096-568A-11092	Sequence 11092, A
398	30	46.9	200	7	US-11-096-568A-27083	Sequence 27083, A	471	30	46.9	453	6	US-10-821-334-1094	Sequence 1094, Ap
399	30	46.9	208	7	US-11-096-568A-1996	Sequence 1996, Ap	472	30	46.9	470	6	US-10-511-989-1171	Sequence 171, App
400	30	46.9	221	7	US-11-087-099-2693	Sequence 2693, Ap	473	30	46.9	472	7	US-11-150-945-48	Sequence 48, Appl
401	30	46.9	227	6	US-10-467-657-1514	Sequence 1514, Ap	474	30	46.9	475	7	US-11-075-188-11091	Sequence 11091, A
402	30	46.9	231	6	US-10-821-234-943	Sequence 943, App	475	30	46.9	477	7	US-11-096-568A-7754	Sequence 27, Appl
403	30	46.9	235	7	US-11-096-568A-20972	Sequence 20972, A	476	30	46.9	480	7	US-11-096-568A-23935	Sequence 23935, Ap
404	30	46.9	239	7	US-11-165-211-58	Sequence 38, Appl	477	30	46.9	482	7	US-11-096-568A-1862	Sequence 1862, Ap
405	30	46.9	253	7	US-11-165-226-68	Sequence 48, Appl	478	30	46.9	484	7	US-11-126-113-24	Sequence 24, Appl
406	30	46.9	240	6	US-10-689-742-210	Sequence 5274, App	479	30	46.9	484	7	US-11-087-099-932	Sequence 932, App
407	30	46.9	248	7	US-11-096-568A-5274	Sequence 4825, Ap	480	30	46.9	484	7	US-11-087-099-932	Sequence 18005, A
408	30	46.9	250	7	US-11-087-099-4825	Sequence 4825, Ap	481	30	46.9	484	7	US-11-096-568A-18005	Sequence 22824, A
409	30	46.9	250	7	US-11-087-099-6372	Sequence 6372, Ap	482	30	46.9	484	7	US-11-096-568A-22824	Sequence 27011, A
410	30	46.9	250	7	US-11-087-099-10914	Sequence 10914, A	483	30	46.9	484	7	US-11-096-568A-22824	Sequence 27011, A
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412	30	46.9	250	7	US-11-096-568A-4302	Sequence 4302, Ap	485	30	46.9	484	7	US-11-096-568A-22824	Sequence 27011, A
413	30	46.9	250	7	US-11-096-568A-25817	Sequence 25817, A	486	30	46.9	487	6	US-10-793-626-2812	Sequence 34206, A
414	30	46.9	258	7	US-11-087-099-10458	Sequence 10458, A	487	30	46.9	487	6	US-11-087-099-7798	Sequence 2812, Ap
415	30	46.9	258	7	US-11-096-568A-4301	Sequence 4301, Ap	488	30	46.9	488	7	US-11-087-099-11028	Sequence 7798, Ap
416	30	46.9	261	7	US-11-087-099-12008	Sequence 12008, A	489	30	46.9	490	7	US-11-013-247A-2	Sequence 11028, A
417	30	46.9	266	7	US-11-087-099-5777	Sequence 5777, Ap	490	30	46.9	490	7	US-10-467-657-5234	Sequence 5234, Ap
418	30	46.9	269	7	US-11-096-568A-4300	Sequence 4300, Ap	491	30	46.9	508	7	US-11-087-099-9085	Sequence 9085, Ap
419	30	46.9	277	7	US-11-172-740-2183	Sequence 2183, Ap	492	30	46.9	509	7	US-11-242-730-12	Sequence 12, Appl
420	30	46.9	279	7	US-11-195-729-11	Sequence 11, Appl	493	30	46.9	513	7	US-11-087-099-1119	Sequence 1119, Ap
421	30	46.9	285	7	US-11-096-568A-4581	Sequence 4581, Ap	494	30	46.9	519	7	US-11-013-247A-17	Sequence 17, Appl
422	30	46.9	286	6	US-10-873-528-100	Sequence 100, App	495	30	46.9	519	7	US-11-096-568A-11090	Sequence 11090, A
423	30	46.9	288	7	US-11-087-099-11574	Sequence 11574, A	496	30	46.9	524	7	US-11-096-568A-22823	Sequence 22823, A
424	30	46.9	289	7	US-11-087-099-9567	Sequence 9567, Ap	497	30	46.9	544	7	US-11-018-868-29	Sequence 868, A
425	30	46.9	307	7	US-11-000-463-244	Sequence 244, App	498	30	46.9	545	7	US-11-065-943-65	Sequence 65, Appl
426	30	46.9	310	6	US-10-467-657-1590	Sequence 1590, Ap	499	30	46.9	545	7	US-11-065-943-67	Sequence 67, Appl
427	30	46.9	318	7	US-11-096-568A-4387	Sequence 4387, Ap	500	30	46.9	545	7	US-11-065-943-69	Sequence 69, Appl
428	30	46.9	328	7	US-11-087-099-9553	Sequence 9553, Ap	501	30	46.9	545	7	US-11-065-943-73	Sequence 73, Appl
429	30	46.9	330	7	US-11-087-099-10594	Sequence 10594, A	502	30	46.9	545	7	US-11-065-943-75	Sequence 75, Appl
430	30	46.9	340	7	US-11-096-568A-27013	Sequence 27013, A	503	30	46.9	545	7	US-11-065-943-77	Sequence 77, Appl
431	30	46.9	341	7	US-11-055-822-570	Sequence 570, App	504	30	46.9	545	7	US-11-065-943-79	Sequence 79, Appl
432	30	46.9	341	7	US-11-055-822-574	Sequence 574, App	505	30	46.9	545	7	US-11-065-943-81	Sequence 81, Appl
433	30	46.9	342	7	US-11-152-892-11	Sequence 11, Appl	506	30	46.9	545	7	US-11-065-943-83	Sequence 83, Appl
434	30	46.9	343	7	US-11-072-512-3068	Sequence 3068, Ap	507	30	46.9	545	7	US-11-065-943-85	Sequence 85, Appl
435	30	46.9	346	7	US-11-087-099-5613	Sequence 5613, Ap	508	30	46.9	545	7	US-11-065-943-87	Sequence 87, Appl
436	30	46.9	347	7	US-11-072-512-2844	Sequence 2844, Ap	509	30	46.9	545	7	US-11-065-943-89	Sequence 89, Appl
437	30	46.9	350	6	US-10-873-528-132	Sequence 132, App	510	30	46.9	545	7	US-11-065-943-91	Sequence 91, Appl
438	30	46.9	355	6	US-11-087-099-3295	Sequence 3295, Ap	511	30	46.9	545	7	US-11-065-943-93	Sequence 93, Appl
439	30	46.9	356	7	US-11-087-099-3095	Sequence 3095, Ap	512	30	46.9	545	7	US-11-065-943-95	Sequence 95, Appl
440	30	46.9	358	6	US-10-770-726-60	Sequence 60, Appl	513	30	46.9	545	7	US-11-065-943-97	Sequence 97, Appl
441	30	46.9	362	7	US-11-013-247A-7	Sequence 7, Appl1	514	30	46.9	545	7	US-11-065-943-99	Sequence 99, Appl
442	30	46.9	364	7	US-11-013-247A-6	Sequence 6, Appl1	515	30	46.9	547	7	US-11-096-568A-20824	Sequence 20824, A
443	30	46.9	369	7	US-11-096-568A-33419	Sequence 33419, A	516	30	46.9	548	7	US-11-198-746-86	Sequence 86, Appl
444	30	46.9	372	7	US-11-197-133A-14	Sequence 14, Appl	517	30	46.9	548	7	US-11-198-746-86	Sequence 86, Appl
445	30	46.9	376	7	US-11-172-740-779	Sequence 779, App	518	30	46.9	548	7	US-11-198-657-86	Sequence 86, Appl
446	30	46.9	391	7	US-11-096-568A-25492	Sequence 25492, A	519	30	46.9	548	7	US-11-096-568A-26924	Sequence 26924, A
447	30	46.9	395	7	US-11-096-568A-18007	Sequence 18007, A	520	30	46.9	548	7	US-11-096-568A-27017	Sequence 27017, A
448	30	46.9	395	7	US-11-096-568A-23937	Sequence 23937, A	521	30	46.9	554	6	US-10-850-816-2	Sequence 2, Appl1
449	30	46.9	396	7	US-11-087-099-930	Sequence 930, App	522	30	46.9	554	6	US-10-850-816-4	Sequence 4, Appl1
450	30	46.9	399	7	US-11-096-568A-7756	Sequence 7756, Ap	523	30	46.9	554	6	US-10-850-816-6	Sequence 6, Appl1
451	30	46.9	399	7	US-11-096-568A-18006	Sequence 18006, A	524	30	46.9	554	6	US-10-850-816-6	Sequence 6, Appl1
452	30	46.9	399	7	US-11-096-568A-22825	Sequence 22825, A	525	30	46.9	551	7	US-11-242-730-10	Sequence 10, Appl
453	30	46.9	399	7	US-11-096-568A-23936	Sequence 23936, A	526	30	46.9	551	7	US-11-242-730-11	Sequence 11, Appl
454	30	46.9	400	7	US-11-096-568A-20971	Sequence 20971, A	527	30	46.9	552	7	US-11-065-943-20	Sequence 20, Appl
455	30	46.9	406	6	US-10-957-569-45	Sequence 15, Appl	528	30	46.9	552	7	US-11-065-943-22	Sequence 22, Appl
456	30	46.9	406	7	US-11-097-589-13	Sequence 13, Appl	529	30	46.9	552	7	US-11-065-943-24	Sequence 24, Appl
457	30	46.9	406	7	US-11-096-568A-34208	Sequence 34208, A	530	30	46.9	552	7	US-11-065-943-26	Sequence 26, Appl
458	30	46.9	410	7	US-11-096-568A-25491	Sequence 25491, A	531	30	46.9	552	7	US-11-065-943-28	Sequence 28, Appl
459	30	46.9	412	7	US-11-096-568A-3418	Sequence 3418, A	532	30	46.9	552	7	US-11-065-943-30	Sequence 30, Appl
460	30	46.9	412	7	US-11-096-568A-34207	Sequence 34207, A	533	30	46.9	552	7	US-11-065-943-32	Sequence 32, Appl
461	30	46.9	416	7	US-11-096-568A-27012	Sequence 27012, A	534	30	46.9	552	7	US-11-065-943-34	Sequence 34, Appl
462	30	46.9	430	6	US-10-793-626-630	Sequence 130, App	535	30	46.9	552	7	US-11-065-943-36	Sequence 36, Appl
463	30	46.9	431	7	US-11-096-568A-7755	Sequence 7755, App	536	30	46.9	552	7	US-11-065-943-38	Sequence 38, Appl



537	30	46.9	588	7	US-11-022-562-210	Sequence 210, App	610	29	45.3	92	6	US-10-523-503-48	Sequence 48, Appl
538	30	46.9	600	6	US-10-878-556A-43	Sequence 43, Appl	611	29	45.3	101	7	US-11-047-757-8	Sequence 8, Appl
539	30	46.9	604	7	US-11-096-568A-27016	Sequence 27016, A	612	29	45.3	101	7	US-11-048-490-8	Sequence 8, Appl
540	30	46.9	610	7	US-11-096-568A-27015	Sequence 27015, A	613	29	45.3	104	7	US-11-232-406A-8	Sequence 8, Appl
541	30	46.9	625	6	US-10-501-035-381	Sequence 381, App	614	29	45.3	114	7	US-11-019-711-42	Sequence 42, Appl
542	30	46.9	627	7	US-11-150-845-47	Sequence 47, Appl	615	29	45.3	118	7	US-11-096-568A-23663	Sequence 23663, A
543	30	46.9	648	7	US-11-096-568A-20823	Sequence 20823, A	616	29	45.3	123	7	US-11-172-740-2416	Sequence 2416, App
544	30	46.9	663	7	US-11-096-568A-26923	Sequence 26923, A	617	29	45.3	126	7	US-11-172-740-2418	Sequence 2418, App
545	30	46.9	676	7	US-11-135-855-28	Sequence 28, Appl	618	29	45.3	131	7	US-11-096-568A-25200	Sequence 25200, A
546	30	46.9	677	7	US-11-135-855-28	Sequence 28, Appl	619	29	45.3	135	7	US-11-096-568A-23861	Sequence 23861, A
547	30	46.9	687	7	US-11-072-512-2651	Sequence 2651, App	620	29	45.3	136	7	US-11-096-568A-25265	Sequence 25265, A
548	30	46.9	695	7	US-11-198-746-87	Sequence 87, Appl	621	29	45.3	141	7	US-11-096-568A-10844	Sequence 10844, A
549	30	46.9	695	7	US-11-198-746-87	Sequence 87, Appl	622	29	45.3	142	7	US-11-098-686-10914	Sequence 10914, A
550	30	46.9	699	7	US-11-198-657-87	Sequence 87, Appl	623	29	45.3	146	7	US-11-096-568A-10914	Sequence 10843, A
551	30	46.9	699	7	US-11-096-568A-26922	Sequence 26922, A	624	29	45.3	166	7	US-11-194-246-118	Sequence 418, App
552	30	46.9	717	7	US-11-135-855-29	Sequence 29, Appl	625	29	45.3	170	7	US-11-172-740-265	Sequence 265, App
553	30	46.9	739	7	US-11-087-099-12273	Sequence 12273, A	626	29	45.3	172	7	US-11-096-568A-25308	Sequence 25308, App
554	30	46.9	753	7	US-11-087-099-2868	Sequence 2868, App	627	29	45.3	172	7	US-11-096-568A-31807	Sequence 31807, A
555	30	46.9	756	7	US-11-072-512-2505	Sequence 2505, App	628	29	45.3	181	7	US-11-096-568A-10842	Sequence 10842, A
556	30	46.9	763	7	US-11-013-247A-35	Sequence 35, Appl	629	29	45.3	183	7	US-11-096-568A-26877	Sequence 26877, A
557	30	46.9	777	7	US-11-087-099-5818	Sequence 5818, App	630	29	45.3	187	7	US-11-172-740-268	Sequence 268, App
558	30	46.9	784	6	US-10-467-657-5968	Sequence 5968, App	631	29	45.3	187	7	US-11-172-740-269	Sequence 269, App
559	30	46.9	805	6	US-10-467-657-1930	Sequence 1930, App	632	29	45.3	192	7	US-11-096-568A-19930	Sequence 19930, A
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562	30	46.9	832	7	US-11-007-797A-11	Sequence 11, Appl	635	29	45.3	203	7	US-11-182-016-55	Sequence 55, Appl
563	30	46.9	832	7	US-11-198-746-4	Sequence 4, Appl	636	29	45.3	208	7	US-11-072-512-1188	Sequence 1188, App
564	30	46.9	832	7	US-11-198-794-4	Sequence 4, Appl	637	29	45.3	209	7	US-11-096-568A-1908	Sequence 1908, App
565	30	46.9	832	7	US-11-242-730-1	Sequence 1, Appl	638	29	45.3	212	7	US-11-172-740-1413	Sequence 1413, App
566	30	46.9	832	7	US-11-183-211-4	Sequence 4, Appl	639	29	45.3	219	6	US-10-793-626-12	Sequence 22, Appl
567	30	46.9	832	7	US-11-198-657-4	Sequence 4, Appl	640	29	45.3	227	6	US-11-074-176-106	Sequence 106, App
568	30	46.9	833	7	US-11-198-746-8	Sequence 8, Appl	641	29	45.3	227	6	US-10-873-528-159	Sequence 159, App
569	30	46.9	833	7	US-11-198-746-85	Sequence 85, Appl	642	29	45.3	230	7	US-11-096-568A-22517	Sequence 22517, A
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573	30	46.9	833	7	US-11-198-657-8	Sequence 8, Appl	646	29	45.3	239	7	US-11-096-568A-4091	Sequence 4091, App
574	30	46.9	833	7	US-11-198-657-85	Sequence 85, Appl	647	29	45.3	248	6	US-10-330-773-642	Sequence 642, App
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576	30	46.9	834	7	US-11-198-794-6	Sequence 6, Appl	649	29	45.3	253	7	US-11-096-568A-24319	Sequence 24319, A
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578	30	46.9	834	7	US-11-183-211-6	Sequence 6, Appl	651	29	45.3	257	7	US-11-096-568A-30602	Sequence 30602, A
579	30	46.9	834	7	US-11-198-657-6	Sequence 6, Appl	652	29	45.3	258	7	US-11-096-568A-32921	Sequence 32921, A
580	30	46.9	853	6	US-10-821-234-1110	Sequence 1110, App	653	29	45.3	260	7	US-11-096-568A-31806	Sequence 31806, A
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583	30	46.9	1009	6	US-10-514-531-11	Sequence 11, Appl	656	29	45.3	266	6	US-10-982-545-3	Sequence 3, Appl
584	30	46.9	1014	6	US-10-514-531-13	Sequence 13, Appl	657	29	45.3	266	6	US-10-821-234-1334	Sequence 1334, App
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586	30	46.9	1048	7	US-11-096-568A-29859	Sequence 29859, A	659	29	45.3	269	7	US-11-096-568A-26876	Sequence 26876, A
587	30	46.9	1107	6	US-10-485-517-145	Sequence 145, App	660	29	45.3	271	7	US-11-051-720-1387	Sequence 1387, App
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591	30	46.9	1367	6	US-10-510-903-10	Sequence 10, Appl	664	29	45.3	284	7	US-11-096-568A-31805	Sequence 31805, A
592	30	46.9	1367	6	US-11-113-202-18	Sequence 18, Appl	665	29	45.3	285	7	US-11-096-568A-24318	Sequence 24318, A
593	30	46.9	1368	6	US-10-995-561-539	Sequence 539, App	666	29	45.3	289	7	US-11-096-568A-32820	Sequence 32820, A
594	30	46.9	1501	6	US-10-793-626-2850	Sequence 2850, App	667	29	45.3	290	7	US-11-096-568A-7550	Sequence 7550, App
595	30	46.9	1652	6	US-10-995-561-563	Sequence 563, App	668	29	45.3	294	7	US-11-096-568A-7549	Sequence 7549, App
596	30	46.9	1659	7	US-11-072-175-205	Sequence 205, App	669	29	45.3	294	7	US-11-096-568A-7675	Sequence 7675, App
597	30	46.9	1750	7	US-11-087-099-12397	Sequence 12397, A	670	29	45.3	299	7	US-11-096-568A-7548	Sequence 7548, App
598	30	46.9	1938	6	US-10-995-561-661	Sequence 661, App	671	29	45.3	300	7	US-11-156-084-346	Sequence 346, App
599	30	46.9	1938	6	US-10-995-561-662	Sequence 662, App	672	29	45.3	310	7	US-11-087-099-4210	Sequence 4210, App
600	30	46.9	1938	6	US-10-995-561-662	Sequence 662, App	673	29	45.3	313	7	US-11-087-099-9808	Sequence 9808, App
601	30	46.9	1938	6	US-10-995-561-660	Sequence 660, App	674	29	45.3	314	7	US-11-087-099-9808	Sequence 9808, App
602	30	46.9	1972	6	US-10-995-561-664	Sequence 664, App	675	29	45.3	314	7	US-11-087-099-5287	Sequence 5287, App
603	30	46.9	2238	6	US-10-330-773-42	Sequence 42, Appl	676	29	45.3	315	7	US-11-096-568A-24317	Sequence 24317, A
604	30	46.9	2801	6	US-10-330-773-630	Sequence 630, App	677	29	45.3	317	7	US-11-087-099-9345	Sequence 9345, App
605	30	46.9	3056	7	US-11-109-156-20	Sequence 20, Appl	678	29	45.3	322	7	US-11-096-568A-7674	Sequence 7674, App
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607	29	45.3	41	6	US-10-467-657-8759	Sequence 8759, App	680	29	45.3	324	7	US-11-087-099-11792	Sequence 11792, App
608	29	45.3	65	7	US-11-087-099-348	Sequence 348, App	681	29	45.3	324	7	US-11-172-740-44	Sequence 44, Appl
609	29	45.3	82	7	US-11-087-099-11699	Sequence 11699, A	682	29	45.3	326	7	US-11-087-099-9532	Sequence 9532, App

683	29	45.3	329	7	US-11-194-246-299	Sequence 299, App	756	29	45.3	467	7	US-11-096-568A-30340	Sequence 30340, A
684	29	45.3	330	7	US-11-098-686-11233	Sequence 11233, A	757	29	45.3	472	6	US-10-511-989-168	Sequence 168, App
685	29	45.3	331	7	US-11-096-568A-32920	Sequence 32920, A	758	29	45.3	475	7	US-11-096-568A-5504	Sequence 5504, App
686	29	45.3	332	7	US-11-087-099-8470	Sequence 3470, Ap	759	29	45.3	485	6	US-10-793-626-1346	Sequence 1346, Ap
687	29	45.3	333	7	US-11-072-512-2073	Sequence 2073, Ap	760	29	45.3	491	7	US-11-087-099-10555	Sequence 10555, A
688	29	45.3	335	7	US-11-152-892-12	Sequence 12, Appl	761	29	45.3	492	7	US-11-096-568A-5503	Sequence 5503, Ap
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690	29	45.3	344	7	US-11-096-568A-7673	Sequence 7673, Ap	763	29	45.3	496	7	US-11-051-720-1453	Sequence 1453, Ap
691	29	45.3	346	7	US-11-051-720-1386	Sequence 1386, Ap	764	29	45.3	508	6	US-10-467-657-7826	Sequence 7826, Ap
692	29	45.3	347	7	US-11-096-568A-2075	Sequence 2075, Ap	765	29	45.3	508	6	US-10-934-944-238	Sequence 238, App
693	29	45.3	352	6	US-10-496-647-2	Sequence 2, Appl1	766	29	45.3	508	7	US-11-116-881A-247	Sequence 247, App
694	29	45.3	352	6	US-10-496-647-4	Sequence 4, Appl1	767	29	45.3	508	7	US-11-096-568A-30275	Sequence 30275, A
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696	29	45.3	352	6	US-10-496-647-8	Sequence 8, Appl1	769	29	45.3	511	6	US-10-678-556A-104	Sequence 104, App
697	29	45.3	356	7	US-11-087-099-11297	Sequence 11297, A	770	29	45.3	511	6	US-11-096-568A-27441	Sequence 27441, A
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699	29	45.3	357	7	US-11-087-099-6967	Sequence 6967, Ap	772	29	45.3	515	7	US-11-096-568A-30274	Sequence 30274, A
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702	29	45.3	359	7	US-11-129-143-51	Sequence 71, Appl	775	29	45.3	531	7	US-11-096-568A-27440	Sequence 27440, A
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706	29	45.3	361	7	US-11-096-568A-28287	Sequence 28287, A	779	29	45.3	569	7	US-11-096-568A-30273	Sequence 30273, A
707	29	45.3	363	7	US-11-096-568A-28286	Sequence 28286, A	780	29	45.3	627	6	US-10-873-528-191	Sequence 191, App
708	29	45.3	364	7	US-11-096-568A-22516	Sequence 22516, A	781	29	45.3	633	7	US-11-098-686-11157	Sequence 11157, A
709	29	45.3	367	7	US-11-087-099-5824	Sequence 6824, Ap	782	29	45.3	635	7	US-11-098-686-11043	Sequence 10433, A
710	29	45.3	367	7	US-11-096-568A-25243	Sequence 25243, A	783	29	45.3	643	7	US-11-087-099-1991	Sequence 1991, Ap
711	29	45.3	368	7	US-11-087-099-8464	Sequence 8464, Ap	784	29	45.3	654	7	US-11-046-668-4	Sequence 4, Appl1
712	29	45.3	370	7	US-11-172-740-40	Sequence 40, Appl	785	29	45.3	654	7	US-11-087-099-12424	Sequence 12424, A
713	29	45.3	370	7	US-11-172-740-41	Sequence 41, Appl	786	29	45.3	672	7	US-11-000-463-455	Sequence 455, App
714	29	45.3	370	7	US-11-172-740-42	Sequence 42, Appl	787	29	45.3	683	7	US-11-046-668-2	Sequence 2, Appl1
715	29	45.3	370	7	US-11-172-740-43	Sequence 43, Appl	788	29	45.3	702	7	US-11-072-512-3021	Sequence 3021, Ap
716	29	45.3	372	7	US-11-096-568A-18959	Sequence 18959, A	789	29	45.3	717	7	US-11-121-438-10	Sequence 10, Appl
717	29	45.3	377	7	US-11-019-711-66	Sequence 66, Appl	790	29	45.3	723	6	US-10-491-668-18	Sequence 18, Appl
718	29	45.3	377	7	US-11-096-568A-18958	Sequence 18958, A	791	29	45.3	727	7	US-11-076-4274-35	Sequence 35, Appl
719	29	45.3	379	7	US-11-096-568A-25242	Sequence 25242, A	792	29	45.3	727	7	US-11-098-686-11389	Sequence 11389, A
720	29	45.3	379	7	US-11-096-568A-30341	Sequence 30341, A	793	29	45.3	741	6	US-10-793-626-11178	Sequence 1178, Ap
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722	29	45.3	383	6	US-10-485-517-356	Sequence 356, App	795	29	45.3	747	7	US-11-047-757-1	Sequence 1, Appl1
723	29	45.3	384	7	US-11-096-568A-30600	Sequence 30600, A	796	29	45.3	747	7	US-11-166-892-1	Sequence 1, Appl1
724	29	45.3	385	7	US-11-051-720-1385	Sequence 1385, Ap	797	29	45.3	747	7	US-11-048-490-1	Sequence 1, Appl1
725	29	45.3	389	7	US-11-010-795-3	Sequence 3, Appl1	798	29	45.3	747	7	US-11-074-374-4	Sequence 2, Appl1
726	29	45.3	389	7	US-11-010-795-16	Sequence 16, Appl	799	29	45.3	748	7	US-11-098-686-10734	Sequence 10734, Ap
727	29	45.3	389	7	US-11-087-099-1827	Sequence 1827, Ap	800	29	45.3	803	6	US-10-921-234-1643	Sequence 1643, Ap
728	29	45.3	391	7	US-11-010-795-2	Sequence 2, Appl1	801	29	45.3	803	6	US-10-962-951-2	Sequence 2, Appl1
729	29	45.3	391	7	US-11-087-099-3754	Sequence 3754, Ap	802	29	45.3	832	7	US-11-182-016-8	Sequence 8, Appl1
730	29	45.3	393	7	US-11-096-568A-32819	Sequence 32819, A	803	29	45.3	835	7	US-11-098-686-10397	Sequence 10397, A
731	29	45.3	396	7	US-11-096-568A-19775	Sequence 19775, A	804	29	45.3	844	7	US-11-127-877-40	Sequence 40, Appl
732	29	45.3	399	7	US-11-051-720-1388	Sequence 1388, Ap	805	29	45.3	860	7	US-11-019-711-59	Sequence 59, Appl
733	29	45.3	400	7	US-11-172-740-1229	Sequence 1229, Ap	806	29	45.3	865	6	US-10-467-657-2302	Sequence 2302, Ap
734	29	45.3	401	6	US-10-131-826A-486	Sequence 486, App	807	29	45.3	866	7	US-11-087-099-11456	Sequence 11456, A
735	29	45.3	401	6	US-10-973-1158A-486	Sequence 486, App	808	29	45.3	866	7	US-11-096-568A-133587	Sequence 13587, A
736	29	45.3	406	6	US-10-995-561-748	Sequence 748, App	809	29	45.3	900	6	US-10-501-035-215	Sequence 215, App
737	29	45.3	406	6	US-10-995-561-749	Sequence 749, App	810	29	45.3	974	7	US-11-096-568A-33586	Sequence 33586, Ap
738	29	45.3	406	6	US-10-995-561-750	Sequence 750, App	811	29	45.3	991	6	US-10-330-773-418	Sequence 418, App
739	29	45.3	406	6	US-10-995-561-751	Sequence 751, App	812	29	45.3	1025	7	US-11-096-568A-33585	Sequence 33585, A
740	29	45.3	406	6	US-10-995-561-752	Sequence 752, App	813	29	45.3	1112	7	US-11-096-568A-33821	Sequence 33821, A
741	29	45.3	407	7	US-11-096-568A-5204	Sequence 5204, Ap	814	29	45.3	1113	7	US-11-096-568A-33820	Sequence 33820, A
742	29	45.3	409	7	US-11-096-568A-19135	Sequence 19135, A	815	29	45.3	1115	7	US-11-096-568A-33819	Sequence 33819, A
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744	29	45.3	414	7	US-11-096-568A-22515	Sequence 22515, A	817	29	45.3	1240	6	US-10-966-568A-30723	Sequence 30723, A
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## ALIGNMENTS

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RESULT 1
US-10-467-657-7674
; Sequence 7674, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467, 657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 7674
; LENGTH: 153
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US-10-467-657-7674

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## RESULT 2

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; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega

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; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
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US-10-467-657-8432

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; Sequence 10456, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
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RESULT 4
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; Sequence 1626, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Steache-Crain, Birgit
; APPLICANT: Andarman, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes version 1.0

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RESULT 5  
US-11-053-100-58  
Sequence 58, Application US/11053100  
Publication No. US2005025554A1  
GENERAL INFORMATION:  
APPLICANT: CHILKOTI, Ashutosh  
TITLE OF INVENTION: FUSION PEPTIDES ISOLATABLE BY PHASE TRANSITION  
FILE REFERENCE: 4176-101 CIP  
CURRENT APPLICATION NUMBER: US/11/053,100  
PRIOR FILING DATE: 2005-02-08  
PRIOR APPLICATION NUMBER: US 09/812,382  
PRIOR FILING DATE: 2001-03-20  
PRIOR APPLICATION NUMBER: US 60/190,659  
PRIOR FILING DATE: 2000-03-20  
NUMBER OF SEQ ID NOS: 58  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 58  
LENGTH: 864  
TYPE: PRT  
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OTHER INFORMATION: Synthetic Construct  
FEATURES:  
NAME/KEY: MISC FEATURE  
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RESULT 6  
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Publication No. US2005024530A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Beresini, Maureen  
APPLICANT: DeForge, Laura  
APPLICANT: Desnoyers, Luc  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerltsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Sherwood, Steven  
APPLICANT: Smith, Victoria  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K  
APPLICANT: Wood, William

APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P330R1C128  
CURRENT APPLICATION NUMBER: US/10/131,826A  
CURRENT FILING DATE: 2002-04-24  
PRIOR APPLICATION NUMBER: 60/049911  
PRIOR FILING DATE: 1997-06-18  
PRIOR APPLICATION NUMBER: 60/056974  
PRIOR FILING DATE: 1997-08-26  
PRIOR APPLICATION NUMBER: 60/059113  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/059115  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/059117  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/059122  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/059184  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/059263  
PRIOR FILING DATE: 1997-09-18  
PRIOR APPLICATION NUMBER: 60/059352  
PRIOR FILING DATE: 1997-09-19  
PRIOR APPLICATION NUMBER: 60/059588  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 550  
SEQ ID NO 118  
LENGTH: 284  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-10-131-826A-118

Query Match 62.5%; Score 40; DB 6; Length 284;  
Best Local Similarity 53.8%; Pred. No. 21;  
Matches 7; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 2 SREAKQVERKALE 14  
| | | | | : | | | | : |  
Db 180 SKAKKIEKFLD 192

RESULT 7  
US-10-973-115B-118  
Sequence 118, Application US/10973115B  
Publication No. US20060040351A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Beresini, Maureen  
APPLICANT: DeForge, Laura  
APPLICANT: Desnoyers, Luc  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerltsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Gurney, Austin L.  
APPLICANT: Sherwood, Steven  
APPLICANT: Smith, Victoria  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING  
FILE REFERENCE: 39870-3330R1C300C1  
CURRENT APPLICATION NUMBER: US/10/973,115B  
CURRENT FILING DATE: 2004-10-22  
PRIOR APPLICATION NUMBER: US 10/145,747  
PRIOR FILING DATE: 2002-05-14  
PRIOR APPLICATION NUMBER: US 10/028,072

```

; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US 09/581,742
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: PCT/US00/05746
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/135,736
; PRIOR FILING DATE: 1999-05-25
; PRIOR APPLICATION NUMBER: US 60/123,090
; PRIOR FILING DATE: 1999-03-05
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 118
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-973-115B-118

Query Match      62.5%; Score 40; DB 6; Length 284;
Best Local Similarity 53.8%; Pred. No. 21;
Matches 7; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy      2 ASREAKKQKVER 14
Db      180 SKKAKKEIKKFLD 192

RESULT 8
US-10-453-372-632
; Sequence 632, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alecbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CirusSeqList version 0.1
; SEQ ID NO 632
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-632

Query Match      60.9%; Score 39; DB 6; Length 392;
Best Local Similarity 72.7%; Pred. No. 44;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ASREAKKQKVER 11
Db      267 ASQKAKQKVER 277
```

```

RESULT 9
US-10-453-372-634
; Sequence 634, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alecbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CirusSeqList version 0.1
; SEQ ID NO 634
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-634

Query Match      60.9%; Score 39; DB 6; Length 392;
Best Local Similarity 72.7%; Pred. No. 44;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ASREAKKQKVER 11
Db      267 ASQKAKQKVER 277

RESULT 10
US-10-453-372-620
; Sequence 620, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alecbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
```



```
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curaseqdist version 0.1
; SEQ ID NO 620
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-620
```

```
Query Match      60.9%; Score 39; DB 6; Length 396;
Best Local Similarity 72.7%; Pred. No. 44;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1 ASREAKKQVEK 11
||:||||:|
Db      269 ASQEKQKVEK 279
```

```
RESULT 11
US-10-453-372-618
; Sequence 618, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curaseqdist version 0.1
; SEQ ID NO 618
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-618
```

```
Query Match      60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1 ASREAKKQVEK 11
||:||||:|
Db      317 ASQEKQKVEK 327
```

```
RESULT 12
US-10-453-372-626
; Sequence 626, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curaseqdist version 0.1
; SEQ ID NO 626
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-626
```

```
Query Match      60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1 ASREAKKQVEK 11
||:||||:|
Db      317 ASQEKQKVEK 327
```

```
RESULT 13
US-10-453-372-628
; Sequence 628, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
```

;; PRIOR FILING DATE: 2000-05-31  
;; PRIOR APPLICATION NUMBER: 09/939398  
;; PRIOR FILING DATE: 2001-08-24  
;; PRIOR APPLICATION NUMBER: 60/227800  
;; PRIOR FILING DATE: 2000-08-25  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 1609  
;; SOFTWARE: Curseseqdist version 0.1  
;; SEQ ID NO: 628  
;; LENGTH: 442  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-453-372-628

Query Match 60.9%; Score 39; DB 6; Length 442;  
Best Local Similarity 72.7%; Pred. No. 50;  
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEK 11  
Db 317 ASQRAKQVEK 327

RESULT 14  
US-10-453-372-630  
;; Sequence 630, Application US/10453372  
;; Publication No. US2006003323A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alabrook, et al.  
;; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
;; FILE REFERENCE: 21402-589 A  
;; CURRENT APPLICATION NUMBER: US/10/453,372  
;; PRIOR FILING DATE: 2003-06-03  
;; PRIOR APPLICATION NUMBER: 09/789390  
;; PRIOR FILING DATE: 2001-02-23  
;; PRIOR APPLICATION NUMBER: 60/185967  
;; PRIOR FILING DATE: 2000-03-01  
;; PRIOR APPLICATION NUMBER: 09/823187  
;; PRIOR FILING DATE: 2001-03-29  
;; PRIOR APPLICATION NUMBER: 60/195792  
;; PRIOR FILING DATE: 2000-03-10  
;; PRIOR APPLICATION NUMBER: 09/839446  
;; PRIOR FILING DATE: 2001-03-19  
;; PRIOR APPLICATION NUMBER: 60/199476  
;; PRIOR FILING DATE: 2000-03-25  
;; PRIOR APPLICATION NUMBER: 09/863776  
;; PRIOR FILING DATE: 2001-05-23  
;; PRIOR APPLICATION NUMBER: 60/208263  
;; PRIOR FILING DATE: 2000-05-31  
;; PRIOR APPLICATION NUMBER: 09/939398  
;; PRIOR FILING DATE: 2001-08-24  
;; PRIOR APPLICATION NUMBER: 60/227800  
;; PRIOR FILING DATE: 2000-08-25  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 1609  
;; SOFTWARE: Curseseqdist version 0.1  
;; SEQ ID NO: 630  
;; LENGTH: 442  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-453-372-630

Query Match 60.9%; Score 39; DB 6; Length 442;  
Best Local Similarity 72.7%; Pred. No. 50;  
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEK 11  
Db 317 ASQRAKQVEK 327

RESULT 15  
US-10-453-372-636

;; Sequence 636, Application US/10453372  
;; Publication No. US2006003323A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alabrook, et al.  
;; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
;; FILE REFERENCE: 21402-589 A  
;; CURRENT APPLICATION NUMBER: US/10/453,372  
;; PRIOR FILING DATE: 2003-06-03  
;; PRIOR APPLICATION NUMBER: 09/789390  
;; PRIOR FILING DATE: 2001-02-23  
;; PRIOR APPLICATION NUMBER: 60/185967  
;; PRIOR FILING DATE: 2000-03-01  
;; PRIOR APPLICATION NUMBER: 09/823187  
;; PRIOR FILING DATE: 2001-03-29  
;; PRIOR APPLICATION NUMBER: 60/195792  
;; PRIOR FILING DATE: 2000-03-10  
;; PRIOR APPLICATION NUMBER: 09/839446  
;; PRIOR FILING DATE: 2001-03-19  
;; PRIOR APPLICATION NUMBER: 60/199476  
;; PRIOR FILING DATE: 2000-03-25  
;; PRIOR APPLICATION NUMBER: 09/863776  
;; PRIOR FILING DATE: 2001-05-23  
;; PRIOR APPLICATION NUMBER: 60/208263  
;; PRIOR FILING DATE: 2000-05-31  
;; PRIOR APPLICATION NUMBER: 09/939398  
;; PRIOR FILING DATE: 2001-08-24  
;; PRIOR APPLICATION NUMBER: 60/227800  
;; PRIOR FILING DATE: 2000-08-25  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 1609  
;; SOFTWARE: Curseseqdist version 0.1  
;; SEQ ID NO: 636  
;; LENGTH: 442  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-453-372-636

Query Match 60.9%; Score 39; DB 6; Length 442;  
Best Local Similarity 72.7%; Pred. No. 50;  
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEK 11  
Db 317 ASQRAKQVEK 327

RESULT 16  
US-10-877-346-19  
;; Sequence 19, Application US/10877346  
;; Publication No. US20060014153A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Gerlach, Valerie L  
;; APPLICANT: Macdougall, John R  
;; APPLICANT: Smithson, Glenda  
;; APPLICANT: Miller, Isabelle  
;; APPLICANT: Stone, David  
;; APPLICANT: Gunther, Erik  
;; APPLICANT: Sillerman, Karen  
;; APPLICANT: Grose, William M  
;; APPLICANT: Alabrook II, John P  
;; APPLICANT: Lepley, Denise M  
;; APPLICANT: Burgess, Catherine E  
;; APPLICANT: Padigaru, Muraidhara  
;; APPLICANT: Kerkute, Ramesh  
;; APPLICANT: Szytek, Kimberly A  
;; APPLICANT: Leach, Martin D  
;; APPLICANT: Shinkets, Richard A  
;; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
;; FILE REFERENCE: 21402-124  
;; CURRENT APPLICATION NUMBER: US/10/877,346  
;; PRIOR FILING DATE: 2004-06-25  
;; PRIOR APPLICATION NUMBER: US/09/964,956  
;; PRIOR FILING DATE: 2001-09-26

;; PRIOR APPLICATION NUMBER: 60/235,631  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/235,633  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/235,808  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/236,064  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/236,065  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/236,066  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/236,135  
;; PRIOR FILING DATE: 2000-09-28  
;; PRIOR APPLICATION NUMBER: 60/237,434  
;; PRIOR FILING DATE: 2000-10-03  
;; PRIOR APPLICATION NUMBER: 60/238,321  
;; PRIOR FILING DATE: 2000-10-05  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 127  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 19  
;; LENGTH: 442  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-877-346-19

Query Match 60.9%; Score 39; DB 6; Length 442;  
Best Local Similarity 72.7%; Pred. No. 50;  
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Cy 1 ASREKKOVER 11  
||:||||:  
Db 317 ASREKKOVER 327

RESULT 17  
US-10-877-346-21  
;; Sequence 21, Application US/10877346  
;; Publication No. US2006001453A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Gerlach, Valerie L  
;; APPLICANT: MacDougall, John R  
;; APPLICANT: Smithson, Glenda  
;; APPLICANT: Millet, Isabelle  
;; APPLICANT: Stone, David  
;; APPLICANT: Gunther, Erik  
;; APPLICANT: Ellerman, Karen  
;; APPLICANT: Grose, William M  
;; APPLICANT: Alsbrook II, John P  
;; APPLICANT: Lepley, Denise M  
;; APPLICANT: Burgess, Catherine E  
;; APPLICANT: Padigaru, Muralidhara  
;; APPLICANT: Kekuda, Ramesh  
;; APPLICANT: Spytek, Kimberly A  
;; APPLICANT: Leach, Martin D  
;; APPLICANT: Shinkets, Richard A  
;; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
;; FILE REFERENCE: 21402-124  
;; CURRENT APPLICATION NUMBER: US/10/877,346  
;; PRIOR FILING DATE: 2004-06-25  
;; PRIOR APPLICATION NUMBER: US/09/964,956  
;; PRIOR FILING DATE: 2001-09-26  
;; PRIOR APPLICATION NUMBER: 60/235,631  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/235,633  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/235,808  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/236,064  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/236,065  
;; PRIOR FILING DATE: 2000-09-27  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 127

;; PRIOR APPLICATION NUMBER: 60/236,066  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/236,135  
;; PRIOR FILING DATE: 2000-09-28  
;; PRIOR APPLICATION NUMBER: 60/237,434  
;; PRIOR FILING DATE: 2000-10-03  
;; PRIOR APPLICATION NUMBER: 60/238,321  
;; PRIOR FILING DATE: 2000-10-05  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 127  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 21  
;; LENGTH: 442  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-877-346-21

Query Match 60.9%; Score 39; DB 6; Length 442;  
Best Local Similarity 72.7%; Pred. No. 50;  
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Cy 1 ASREKKOVER 11  
||:||||:  
Db 317 ASREKKOVER 327

RESULT 18  
US-10-877-346-23  
;; Sequence 23, Application US/10877346  
;; Publication No. US2006001453A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Gerlach, Valerie L  
;; APPLICANT: MacDougall, John R  
;; APPLICANT: Smithson, Glenda  
;; APPLICANT: Millet, Isabelle  
;; APPLICANT: Stone, David  
;; APPLICANT: Gunther, Erik  
;; APPLICANT: Ellerman, Karen  
;; APPLICANT: Grose, William M  
;; APPLICANT: Alsbrook II, John P  
;; APPLICANT: Lepley, Denise M  
;; APPLICANT: Burgess, Catherine E  
;; APPLICANT: Padigaru, Muralidhara  
;; APPLICANT: Kekuda, Ramesh  
;; APPLICANT: Spytek, Kimberly A  
;; APPLICANT: Leach, Martin D  
;; APPLICANT: Shinkets, Richard A  
;; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
;; FILE REFERENCE: 21402-124  
;; CURRENT APPLICATION NUMBER: US/10/877,346  
;; PRIOR FILING DATE: 2004-06-25  
;; PRIOR APPLICATION NUMBER: US/09/964,956  
;; PRIOR FILING DATE: 2001-09-26  
;; PRIOR APPLICATION NUMBER: 60/235,631  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/235,633  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/235,808  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/236,064  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/236,065  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/236,066  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: 60/236,135  
;; PRIOR FILING DATE: 2000-09-28  
;; PRIOR APPLICATION NUMBER: 60/237,434  
;; PRIOR FILING DATE: 2000-10-03  
;; PRIOR APPLICATION NUMBER: 60/238,321  
;; PRIOR FILING DATE: 2000-10-05  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 127

;; SOFTWARE: Patentin Ver. 2.1  
;; SEQ ID NO 23  
;; LENGTH: 442  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-877-346-23

Query Match 60.9%; Score 39; DB 6; Length 442;  
Best Local Similarity 72.7%; Pred. No. 50;  
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Cy 1 ASREAKKQKVEK 11  
||:||||:||||  
Db 317 ASQSAKKQKVEK 327

RESULT 19  
US-10-877-346-55  
; Sequence 55, Application US/10877346  
; Publication No. US20060014153A1  
; GENERAL INFORMATION:  
; APPLICANT: Gerlach, Valerie L  
; APPLICANT: MacDougall, John R  
; APPLICANT: Smithson, Glenda  
; APPLICANT: Miller, Isabelle  
; APPLICANT: Stone, David  
; APPLICANT: Gunther, Erik  
; APPLICANT: Grosse, William M  
; APPLICANT: Alsobrook II, John P  
; APPLICANT: Lepley, Denise M  
; APPLICANT: Burgess, Catherine E  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Leach, Martin D  
; APPLICANT: Shinkels, Richard A  
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-124  
; CURRENT FILING DATE: 2004-06-25  
; PRIOR APPLICATION NUMBER: US/09/964,956  
; PRIOR FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/235,631  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,633  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,808  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,064  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,065  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,066  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,135  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: 60/237,434  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/238,321  
; PRIOR FILING DATE: 2000-10-05  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 127  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 55  
; LENGTH: 442  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-877-346-55

Query Match 60.9%; Score 39; DB 6; Length 442;  
Best Local Similarity 72.7%; Pred. No. 50;  
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Cy 1 ASREAKKQKVEK 11  
||:||||:||||  
Db 317 ASQSAKKQKVEK 327

RESULT 20  
US-10-877-346-56  
; Sequence 56, Application US/10877346  
; Publication No. US20060014153A1  
; GENERAL INFORMATION:  
; APPLICANT: Gerlach, Valerie L  
; APPLICANT: MacDougall, John R  
; APPLICANT: Smithson, Glenda  
; APPLICANT: Miller, Isabelle  
; APPLICANT: Stone, David  
; APPLICANT: Gunther, Erik  
; APPLICANT: Killeman, Karen  
; APPLICANT: Alsobrook II, John P  
; APPLICANT: Lepley, Denise M  
; APPLICANT: Burgess, Catherine E  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Leach, Martin D  
; APPLICANT: Shinkels, Richard A  
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-124  
; CURRENT APPLICATION NUMBER: US/10/877,346  
; PRIOR FILING DATE: 2004-06-25  
; PRIOR APPLICATION NUMBER: US/09/964,956  
; PRIOR FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/235,631  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,633  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,808  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,064  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,065  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,066  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,135  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: 60/237,434  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/238,321  
; PRIOR FILING DATE: 2000-10-05  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 127  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 56  
; LENGTH: 442  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-877-346-56

Query Match 60.9%; Score 39; DB 6; Length 442;  
Best Local Similarity 72.7%; Pred. No. 50;  
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Cy 1 ASREAKKQKVEK 11  
||:||||:||||  
Db 317 ASQSAKKQKVEK 327

RESULT 21  
US-10-821-234-896  
; Sequence 896, Application US/10821234  
; Publication No. US2005025511A1

```
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_seq_genes Version 1.0
; SEQ ID NO 896
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-896
```

```
Query Match          60.9%; Score 39; DB 6; Length 459;
Best Local Similarity 72.7%; Pred. No. 52;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ASREAKQKVER 11
        ||:||||:|
Db       334 ASGEAKQKVER 344
```

```
RESULT 22
US-10-453-372-624
; Sequence 624, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CursSeqList version 0.1
; SEQ ID NO 624
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-624
```

```
Query Match          60.9%; Score 39; DB 6; Length 468;
Best Local Similarity 72.7%; Pred. No. 54;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ASREAKQKVER 11
        ||:||||:|
```

```
Db       322 ASGEAKQKVER 332
```

```
RESULT 23
US-10-453-372-622
; Sequence 622, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CursSeqList version 0.1
; SEQ ID NO 622
; LENGTH: 470
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-622
```

```
Query Match          60.9%; Score 39; DB 6; Length 470;
Best Local Similarity 72.7%; Pred. No. 54;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ASREAKQKVER 11
        ||:||||:|
Db       343 ASGEAKQKVER 353
```

```
RESULT 24
US-10-330-773-553
; Sequence 553, Application US/10330773
; Publication No. US20060040262A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc Malandro
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer
; FILE REFERENCE: 529452001300
; CURRENT APPLICATION NUMBER: US/10/330,773
; CURRENT FILING DATE: 2002-12-27
; NUMBER OF SEQ ID NOS: 981
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 553
; LENGTH: 611
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-330-773-553
```

```
Query Match          60.9%; Score 39; DB 6; Length 611;
Best Local Similarity 50.0%; Pred. No. 73;
Matches 7; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
```

QY 1 ASREAXKQVEKAL 14  
|:|:|:|:|:  
Db 386 AKKELSRQIKRQLQ 399

RESULT 25  
US-11-124-367A-444  
; Sequence 444, Application US/11124367A  
; Publication No. US20060024700A1  
; GENERAL INFORMATION:  
; APPLICANT: Michele Cargill  
; APPLICANT: Hongjin Huang  
; TITLE OF INVENTION: Genetic Polymorphisms Associated with  
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof  
; FILE REFERENCE: CU001519.ORD  
; CURRENT APPLICATION NUMBER: US/11/124,367A  
; CURRENT FILING DATE: 2005-05-09  
; PRIOR APPLICATION NUMBER: US 60/568,846  
; PRIOR FILING DATE: 2004-05-07  
; PRIOR APPLICATION NUMBER: US 60/582,609  
; PRIOR FILING DATE: 2004-06-25  
; PRIOR APPLICATION NUMBER: US 60/599,554  
; PRIOR FILING DATE: 2004-08-09  
; NUMBER OF SEQ ID NOS: 34460  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 444  
; LENGTH: 2760  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-124-367A-444

Query Match 59.4%; Score 38; DB 7; Length 2760;  
Best Local Similarity 58.3%; Pred. No. 6.1e+02;  
Matches 7; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ASREAXKQVEKA 12  
|:|:|:|:|:  
Db 148 ASRKAKRSIEEA 159

RESULT 26  
US-11-124-367A-442  
; Sequence 442, Application US/11124367A  
; Publication No. US20060024700A1  
; GENERAL INFORMATION:  
; APPLICANT: Michele Cargill  
; APPLICANT: Hongjin Huang  
; TITLE OF INVENTION: Genetic Polymorphisms Associated with  
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof  
; FILE REFERENCE: CU001519.ORD  
; CURRENT APPLICATION NUMBER: US/11/124,367A  
; CURRENT FILING DATE: 2005-05-09  
; PRIOR APPLICATION NUMBER: US 60/568,846  
; PRIOR FILING DATE: 2004-05-07  
; PRIOR APPLICATION NUMBER: US 60/582,609  
; PRIOR FILING DATE: 2004-06-25  
; PRIOR APPLICATION NUMBER: US 60/599,554  
; PRIOR FILING DATE: 2004-08-09  
; NUMBER OF SEQ ID NOS: 34460  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 442  
; LENGTH: 2803  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-124-367A-442

Query Match 59.4%; Score 38; DB 7; Length 2803;  
Best Local Similarity 58.3%; Pred. No. 6.2e+02;  
Matches 7; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ASREAXKQVEKA 12  
|:|:|:|:|:  
Db 148 ASRKAKRSIEEA 159

Db 148 ASRKAKRSIEEA 159

RESULT 27  
US-11-124-367A-445  
; Sequence 445, Application US/11124367A  
; Publication No. US20060024700A1  
; GENERAL INFORMATION:  
; APPLICANT: Michele Cargill  
; APPLICANT: Hongjin Huang  
; TITLE OF INVENTION: Genetic Polymorphisms Associated with  
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof  
; FILE REFERENCE: CU001519.ORD  
; CURRENT APPLICATION NUMBER: US/11/124,367A  
; CURRENT FILING DATE: 2005-05-09  
; PRIOR APPLICATION NUMBER: US 60/568,846  
; PRIOR FILING DATE: 2004-05-07  
; PRIOR APPLICATION NUMBER: US 60/582,609  
; PRIOR FILING DATE: 2004-06-25  
; PRIOR APPLICATION NUMBER: US 60/599,554  
; PRIOR FILING DATE: 2004-08-09  
; NUMBER OF SEQ ID NOS: 34460  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 445  
; LENGTH: 2803  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-124-367A-445

Query Match 59.4%; Score 38; DB 7; Length 2803;  
Best Local Similarity 58.3%; Pred. No. 6.2e+02;  
Matches 7; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ASREAXKQVEKA 12  
|:|:|:|:|:  
Db 148 ASRKAKRSIEEA 159

RESULT 28  
US-11-124-367A-443  
; Sequence 443, Application US/11124367A  
; Publication No. US20060024700A1  
; GENERAL INFORMATION:  
; APPLICANT: Michele Cargill  
; APPLICANT: Hongjin Huang  
; TITLE OF INVENTION: Genetic Polymorphisms Associated with  
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof  
; FILE REFERENCE: CU001519.ORD  
; CURRENT APPLICATION NUMBER: US/11/124,367A  
; CURRENT FILING DATE: 2005-05-09  
; PRIOR APPLICATION NUMBER: US 60/568,846  
; PRIOR FILING DATE: 2004-05-07  
; PRIOR APPLICATION NUMBER: US 60/582,609  
; PRIOR FILING DATE: 2004-06-25  
; PRIOR APPLICATION NUMBER: US 60/599,554  
; PRIOR FILING DATE: 2004-08-09  
; NUMBER OF SEQ ID NOS: 34460  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 443  
; LENGTH: 2984  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-124-367A-443

Query Match 59.4%; Score 38; DB 7; Length 2984;  
Best Local Similarity 58.3%; Pred. No. 6.7e+02;  
Matches 7; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ASREAXKQVEKA 12  
|:|:|:|:|:  
Db 372 ASRKAKRSIEEA 383



```
RESULT 29
US-11-124-367A-441
; Sequence 441, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargi11
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CU001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 441
; LENGTH: 3027
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-367A-441

Query Match      59.4%; Score 38; DB 7; Length 3027;
Best Local Similarity 58.3%; Pred. No. 6.8e+02;
Matches 7; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Cy      1 ASREAKOVERKA 12
      |||:|:|:|:|
Db      372 ASRKAKSIEEA 383

RESULT 30
US-11-096-568A-24630
; Sequence 24630, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Theryby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 24630
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(129)
; OTHER INFORMATION: Ceres Seq. ID no. 12436144
US-11-096-568A-24630

Query Match      57.8%; Score 37; DB 7; Length 129;
Best Local Similarity 72.7%; Pred. No. 25;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Cy      3 REAKKOVERKAL 13
      |||:|:|:|:|
Db      89 REASEDVEKAL 99

RESULT 31
US-11-096-568A-24629
; Sequence 24629, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
```

```
; TITLE OF INVENTION: Theryby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 24629
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(132)
; OTHER INFORMATION: Ceres Seq. ID no. 12436143
US-11-096-568A-24629

Query Match      57.8%; Score 37; DB 7; Length 132;
Best Local Similarity 72.7%; Pred. No. 26;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Cy      3 REAKKOVERKAL 13
      |||:|:|:|:|
Db      92 REASEDVEKAL 102

RESULT 32
US-11-096-568A-24628
; Sequence 24628, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Theryby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 24628
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(145)
; OTHER INFORMATION: Ceres Seq. ID no. 12436142
US-11-096-568A-24628

Query Match      57.8%; Score 37; DB 7; Length 145;
Best Local Similarity 72.7%; Pred. No. 29;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Cy      3 REAKKOVERKAL 13
      |||:|:|:|:|
Db      105 REASEDVEKAL 115

RESULT 33
US-10-793-626-1186
; Sequence 1186, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1186
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Artificial Sequence
```

```

:      FEATURE:      Description of Artificial Sequence: synthetic
: OTHER INFORMATION: amino acid sequence
:
: OTHER INFORMATION:
US-10-793-626-1186

```

Query Match	57.8%	Score 37/	DB 6/	Length 200/
Best Local Similarity	64.3%	Pred. No. 42/		
Matches	9/	Conservative	1/	Mismatches 4/
				Indels 0/
				Gaps 0/
QY	1 ASREAKQVETALE	14		
		1:		
Db	32 ASREAVKKGSKGLE	45		

```

RESULT 34
US-10-793-626-2390
; Sequence 2390, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUJ480US
; CURRENT APPLICATION NUMBER: US-10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2390
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; US-10-793-626-2390

```

Query Match	57.8%	Score 37	DB 6	Length 200
Best Local Similarity	64.3%	Pred. No. 42		
Matches 9	Conservative 1	Mismatches 4	Indels 0	Gaps 0

```

RESULT 35
US-11-087-099-11843
; Sequence 11843, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087, 099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11843
; LENGTH: 355
; TYPE: prt
; ORGANISM: Thermomicrobacter tengcongensis
US-11-087-099-11843

```

Query Match	57.8%	Score 37	DB 7	Length 355
Similarity	50.0%	Pred. No. 82		
Best Local				
Matches	7	Conservative	5	Mismatches 2
				Indels 0
				Gaps 0

### RESULT 36

```

US-11-096-568A-3496
; Sequence 3496, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Iterdy
; FILE REFERENCE: 2750-1592FUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3496
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(189)
; OTHER INFORMATION: Ceres Seq. ID no. 12610336
US-11-096-568A-3496

```

Query Match	Score 36;	DB 7;	Length 189;
Best Local Similarity	63.6%;	Pred. No. 57;	
Matches	7;	Conservative 3;	Mismatches 1;
			Indels 0;
			Gaps 0;
QY	2 SRAKKQVEKA	12	
	:         :		
Db	172 AERAKOLEEA	182	

```

RESULT 37
US-11-096-568A-3495
; Sequence 3495, Application US/11096568A
; Publication NO. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
; TITLE OF INVENTION: Theory
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3495
; LENGTH: 217
; TYPE: PR1
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(217)
; OTHER INFORMATION: Ceres Seq. ID no. 12610335
US-11-096-568A-3495

```

Query Match	56.2%	Score 36	DB 7	Length 217
Best Local Similarity	63.6%	Pred. No. 67		
Matches 7; Conservative		3; Mismatches	1; Indels	0; Gaps 0

```

RESULT 38
US-11-096-566A-32889
; Sequence 32889, Application US/11096566A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,566A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471

```

SEQ ID NO 32889  
LENGTH: 269  
TYPE: PRT  
ORGANISM: Arabidopsis thaliana  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (1)..(269)  
OTHER INFORMATION: Ceres Seq. ID no. 13601413  
US-11-096-568A-32889

Query Match 56.2%; Score 36; DB 7; Length 269;  
Best Local Similarity 70.0%; Pred. No. 86;  
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 4 EAKKOVERAL 13  
DB 66 EAKKOWSKAI 75

RESULT 39  
US-11-096-568A-32888  
Sequence 32888, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 32888  
LENGTH: 350  
TYPE: PRT  
ORGANISM: Arabidopsis thaliana  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (1)..(350)  
OTHER INFORMATION: Ceres Seq. ID no. 13601412  
US-11-096-568A-32888

Query Match 56.2%; Score 36; DB 7; Length 350;  
Best Local Similarity 70.0%; Pred. No. 1.2e+02;  
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 4 EAKKOVERAL 13  
DB 147 EAKKOWSKAI 156

RESULT 40  
US-11-096-568A-32887  
Sequence 32887, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 32887  
LENGTH: 368  
TYPE: PRT  
ORGANISM: Arabidopsis thaliana  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (1)..(368)  
OTHER INFORMATION: Ceres Seq. ID no. 13601411  
US-11-096-568A-32887

Query Match 56.2%; Score 36; DB 7; Length 368;

Best Local Similarity 70.0%; Pred. No. 1.2e+02;  
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
OY 4 EAKKOVERAL 13  
DB 165 EAKKOWSKAI 174

RESULT 41  
US-10-330-773-556  
Sequence 556, Application US/10330773  
Publication No. US20060040262A1  
GENERAL INFORMATION:  
APPLICANT: David W. Morris  
TITLE OF INVENTION: Novel Compositions and Methods in Cancer  
FILE REFERENCE: 529452001300  
CURRENT APPLICATION NUMBER: US/10/330,773  
CURRENT FILING DATE: 2002-12-27  
NUMBER OF SEQ ID NOS: 981  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 556  
LENGTH: 567  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-330-773-556

Query Match 56.2%; Score 36; DB 6; Length 567;  
Best Local Similarity 42.9%; Pred. No. 2e+02;  
Matches 6; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

OY 1 ASREAKKOVERALE 14  
DB 342 ASRELSQIQRALQ 355

RESULT 42  
US-10-330-773-558  
Sequence 558, Application US/10330773  
Publication No. US20060040262A1  
GENERAL INFORMATION:  
APPLICANT: David W. Morris  
TITLE OF INVENTION: Novel Compositions and Methods in Cancer  
FILE REFERENCE: 529452001300  
CURRENT APPLICATION NUMBER: US/10/330,773  
CURRENT FILING DATE: 2002-12-27  
NUMBER OF SEQ ID NOS: 981  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 558  
LENGTH: 582  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-330-773-558

Query Match 56.2%; Score 36; DB 6; Length 582;  
Best Local Similarity 42.9%; Pred. No. 2.1e+02;  
Matches 6; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

OY 1 ASREAKKOVERALE 14  
DB 357 ASRELSQIQRALQ 370

RESULT 43  
US-11-087-099-8319  
Sequence 8319, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099

```
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8319
; LENGTH: 897
; TYPE: PRT
; ORGANISM: Bacillus anthracis str. A2012
US-11-087-099-8319
```

```
Query Match      56.2%; Score 36; DB 7; Length 897;
Best Local Similarity 66.7%; Pred. No. 3.5e+02;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 ASRAKQVEKAL 12
        |||||
Db      839 ABRKQVEKAL 850
```

```
RESULT 44
US-11-206-071-2
; Sequence 2, Application US/11206071
; Publication No. US2006003923A1
; GENERAL INFORMATION:
; APPLICANT: National Chung-Hsing University
; TITLE OF INVENTION: Vaccine for preventing and treating porcine progressive atrophic
; TITLE OF INVENTION: rhinitis
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/11/206,071
; CURRENT FILING DATE: 2005-08-18
; PRIOR APPLICATION NUMBER: TW 93125156
; PRIOR FILING DATE: 2004-08-20
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 2
; LENGTH: 1285
; TYPE: PRT
; ORGANISM: Pasteurella multocida
US-11-206-071-2
```

```
Query Match      56.2%; Score 36; DB 7; Length 1285;
Best Local Similarity 61.5%; Pred. No. 5.3e+02;
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 ASRAKQVEKAL 13
        |||||
Db      656 AFRRLRQVEKAL 668
```

```
RESULT 45
US-10-867-662-4
; Sequence 4, Application US/10867662
; Publication No. US20050281835A1
; GENERAL INFORMATION:
; APPLICANT: YANG, CHIOU-YING
; TITLE OF INVENTION: SURFACE PROTEIN OF NEISSERIA BACTERIA
; FILE REFERENCE: 3230-115
; CURRENT APPLICATION NUMBER: US/10/867,662
; CURRENT FILING DATE: 2004-06-16
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 4
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-867-662-4
```

```
Query Match      54.7%; Score 35; DB 6; Length 107;
Best Local Similarity 46.2%; Pred. No. 42;
Matches 6; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 SRAKQVEKALE 14
        |||||
Db      18 SQAKQVEKAVQ 30
```

```
RESULT 46
US-10-867-662-2
; Sequence 2, Application US/10867662
; Publication No. US20050281835A1
; GENERAL INFORMATION:
; APPLICANT: YANG, CHIOU-YING
; TITLE OF INVENTION: SURFACE PROTEIN OF NEISSERIA BACTERIA
; FILE REFERENCE: 3230-115
; CURRENT APPLICATION NUMBER: US/10/867,662
; CURRENT FILING DATE: 2004-06-16
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 2
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-867-662-2
```

```
Query Match      54.7%; Score 35; DB 6; Length 114;
Best Local Similarity 46.2%; Pred. No. 46;
Matches 6; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 SRAKQVEKALE 14
        |||||
Db      18 SQAKQVEKAVQ 30
```

```
RESULT 47
US-10-867-662-6
; Sequence 6, Application US/10867662
; Publication No. US20050281835A1
; GENERAL INFORMATION:
; APPLICANT: YANG, CHIOU-YING
; TITLE OF INVENTION: SURFACE PROTEIN OF NEISSERIA BACTERIA
; FILE REFERENCE: 3230-115
; CURRENT APPLICATION NUMBER: US/10/867,662
; CURRENT FILING DATE: 2004-06-16
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 6
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-867-662-6
```

```
Query Match      54.7%; Score 35; DB 6; Length 121;
Best Local Similarity 46.2%; Pred. No. 49;
Matches 6; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 SRAKQVEKALE 14
        |||||
Db      18 SQAKQVEKAVQ 30
```

```
RESULT 48
US-10-867-662-8
; Sequence 8, Application US/10867662
; Publication No. US20050281835A1
; GENERAL INFORMATION:
; APPLICANT: YANG, CHIOU-YING
; TITLE OF INVENTION: SURFACE PROTEIN OF NEISSERIA BACTERIA
; FILE REFERENCE: 3230-115
; CURRENT APPLICATION NUMBER: US/10/867,662
; CURRENT FILING DATE: 2004-06-16
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 8
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-867-662-8
```

Query Match 54.7%; Score 35; DB 6; Length 128;  
 Best Local Similarity 46.2%; Pred. No. 52;  
 Matches 6; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 2 SREAKQVEKLE 14  
 |:||||:|:|:  
 DB 18 SQEAKQVEKVAVQ 30

## RESULT 49

US-11-096-568A-8876  
 ; Sequence 8876, Application US/11096568A  
 ; Publication No. US20060048240A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alexandrov, Nikolai et al.  
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
 ; FILE REFERENCE: 2750-1592PUS2  
 ; CURRENT APPLICATION NUMBER: US/11/096,568A  
 ; CURRENT FILING DATE: 2005-04-01  
 ; NUMBER OF SEQ ID NOS: 34471  
 ; SEQ ID NO 8876  
 ; LENGTH: 161  
 ; TYPE: PRT  
 ; ORGANISM: Triticum aestivum  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; LOCATION: (1)..(161)  
 ; OTHER INFORMATION: Ceres Seq. ID no. 12615857  
 US-11-096-568A-8876

Query Match 54.7%; Score 35; DB 7; Length 161;  
 Best Local Similarity 58.3%; Pred. No. 68;  
 Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 ASREAKQVEKA 12  
 |:||||:|:  
 DB 119 ATSEAKKEIGKA 130

RESULT 50  
 US-11-096-568A-8875  
 ; Sequence 8875, Application US/11096568A  
 ; Publication No. US20060048240A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alexandrov, Nikolai et al.  
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
 ; FILE REFERENCE: 2750-1592PUS2  
 ; CURRENT APPLICATION NUMBER: US/11/096,568A  
 ; CURRENT FILING DATE: 2005-04-01  
 ; NUMBER OF SEQ ID NOS: 34471  
 ; SEQ ID NO 8875  
 ; LENGTH: 171  
 ; TYPE: PRT  
 ; ORGANISM: Triticum aestivum  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; LOCATION: (1)..(171)  
 ; OTHER INFORMATION: Ceres Seq. ID no. 12615856  
 US-11-096-568A-8875

Query Match 54.7%; Score 35; DB 7; Length 171;  
 Best Local Similarity 58.3%; Pred. No. 73;  
 Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 ASREAKQVEKA 12  
 |:||||:|:  
 DB 129 ATSEAKKEIGKA 140

Search completed: March 28, 2006, 19:17:50  
 Job time : 31 secs

**This Page Blank (uspto)**



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OM protein - protein search, using SW model

Run on: March 28, 2006, 18:59:45 ; Search time 24 Seconds  
(without alignments)  
35.639 Million cell updates/sec

Title: US-10-706-275a-2

Perfect score: 1 KOAEDKYKASREAKQVEKALBQLEDKVK 29

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 174695 seqs, 29494374 residues

Total number of hits satisfying chosen parameters: 174695

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

1: Published Applications\_AA\_New:\*  
2: /SIDS5/ptcodata/1/pubpaa/US08\_NEW\_PUB.dep:\*  
3: /SIDS5/ptcodata/1/pubpaa/US06\_NEW\_PUB.dep:\*  
4: /SIDS5/ptcodata/1/pubpaa/US07\_NEW\_PUB.dep:\*  
5: /SIDS5/ptcodata/1/pubpaa/PCT\_NEW\_PUB.dep:\*  
6: /SIDS5/ptcodata/1/pubpaa/US05\_NEW\_PUB.dep:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	59	43.1	284	US-10-821-234-1632	Sequence 1632, App
2	57	41.6	183	US-11-072-512-3180	Sequence 3180, App
3	57	41.6	248	US-10-878-556A-175	Sequence 175, App
4	57	41.6	394	US-11-052-554A-79	Sequence 79, App
5	57	41.6	897	US-11-087-039-8319	Sequence 8319, App
6	57	41.6	1551	US-11-087-039-10366	Sequence 10366, App
7	57	41.6	2295	US-11-087-039-10366	Sequence 10366, App
8	55.5	40.5	861	US-11-096-568A-33917	Sequence 33917, App
9	55.5	40.5	881	US-11-096-568A-33916	Sequence 33916, App
10	55.5	40.5	1069	US-11-096-568A-33915	Sequence 33915, App
11	55.5	40.5	1081	US-11-142-700-29	Sequence 29, App
12	55	40.1	392	US-10-453-372-632	Sequence 632, App
13	55	40.1	392	US-10-453-372-634	Sequence 634, App
14	55	40.1	396	US-10-453-372-620	Sequence 620, App
15	55	40.1	442	US-10-453-372-618	Sequence 618, App
16	55	40.1	442	US-10-453-372-626	Sequence 626, App
17	55	40.1	442	US-10-453-372-628	Sequence 628, App
18	55	40.1	442	US-10-453-372-630	Sequence 630, App
19	55	40.1	442	US-10-453-372-636	Sequence 636, App
20	55	40.1	442	US-10-877-346-19	Sequence 19, App
21	55	40.1	442	US-10-877-346-21	Sequence 21, App
22	55	40.1	442	US-10-877-346-23	Sequence 23, App
23	55	40.1	442	US-10-877-346-25	Sequence 25, App
24	55	40.1	442	US-10-877-346-56	Sequence 56, App
25	55	40.1	459	US-10-821-234-896	Sequence 896, App

26	55	40.1	468	US-10-453-372-624	Sequence 624, App
27	55	40.1	470	US-10-453-372-622	Sequence 622, App
28	55	40.1	821	US-11-124-367A-473	Sequence 473, App
29	53.5	39.1	376	US-11-087-099-11305	Sequence 11305, App
30	53	38.7	364	US-10-984-376-5	Sequence 5, App
31	53	38.7	364	US-10-984-376-6	Sequence 6, App
32	53	38.7	452	US-11-087-099-2046	Sequence 2046, App
33	53	38.7	590	US-11-067-260-50	Sequence 50, App
34	53	38.7	593	US-11-067-260-50	Sequence 50, App
35	53	38.7	612	US-11-067-260-56	Sequence 56, App
36	53	38.7	645	US-11-067-260-44	Sequence 44, App
37	53	38.7	648	US-11-067-260-28	Sequence 28, App
38	53	38.7	751	US-11-067-260-40	Sequence 40, App
39	53	38.7	751	US-11-067-260-48	Sequence 48, App
40	53	38.7	765	US-11-067-260-54	Sequence 54, App
41	53	38.7	793	US-11-067-260-8	Sequence 8, App
42	53	38.7	806	US-11-067-260-38	Sequence 38, App
43	53	38.7	806	US-11-067-260-42	Sequence 42, App
44	53	38.7	858	US-11-067-260-14	Sequence 14, App
45	53	38.7	1389	US-11-067-260-52	Sequence 52, App

#### ALIGNMENTS

```
RESULT 1
US-10-821-234-1632
; Sequence 1632, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmant, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OR INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCES: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: PL_SEQ_genes Version 1.0
; SEQ ID NO 1632
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1632

Query Match      43.1%; Score 59; DB 6; Length 284;
Best Local Similarity 41.4%; Pred. No. 5.8;
Matches 12; Conservative 8; Mismatches 9; Indels 0; Gaps 0;

Cy      1 KOAEDKYKASREAKQVEKALBQLEDKVK 29
Db      30 KOAEDRCQDEEQALQKTKGTEDVE 58

RESULT 2
US-11-072-512-3180
; Sequence 3180, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HTO, YURI
; APPLICANT: OTSUKA, KAORI
; APPLICANT: NAGAI, KEIICHI
```

```

1  APPLICANT: IRIE, RYOTARO
2  APPLICANT: TAMECHIKA, ICHINO
3  APPLICANT: SEKI, NAOHICO
4  APPLICANT: YOSHITAMA, ISUTOMU
5  APPLICANT: OTSUKA, MOTOTYUKI
6  APPLICANT: MAGAHARI, KENJI
7  APPLICANT: MASUHO, YASUHIKO
8  TITLE OF INVENTION: Novel full length cDNA
9  FILE REFERENCE: 08435-0191
10 CURRENT APPLICATION NUMBER: US/11/072,512
11 CURRENT FILING DATE: 2005-03-07
12 PRIOR APPLICATION NUMBER: US 60/350,978
13 PRIOR FILING DATE: 2002-01-25
14 PRIOR APPLICATION NUMBER: JP 2001-379298
15 PRIOR FILING DATE: 2001-11-05
16 NUMBER OF SEQ ID NOS: 4096
17 SOFTWARE: PatentIn Ver. 2.1
18 SEQ ID NO 3180
19 LENGTH: 183
20 TYPE: PR1
21 ORGANISM: Homo sapiens
22 US-11-072-512-3180

```

Qy	1	KQADPKVAKSRBAKKQVKEALQLEDDKK	29
		:    :    :    :    :    :	
Db	132	KEATRAEFARSRVAKLEKTDIDDDDKLK	160

Query Match 41.6%; Score 57; DB 7; Length 183;  
 Best Local Similarity 34.5%; Pred. No. 6;  
 Matches 10; Conservative 10; Mismatches 9; Indels 0; Gaps 0;

```

RESULT 3
US-10-878-556A-175
Sequence 175, Application US/10878556A
Publication No. US20050266399A1
GENERAL INFORMATION:
APPLICANT: Hoffmann La-Roche Inc.
TITLE OF INVENTION: HCV regulated protein expression
FILE REFERENCE: 21762
CURRENT APPLICATION NUMBER: US/10/878,556A
CURRENT FILING DATE: 2004-06-28
NUMBER OF SEQ ID NOS: 159
SOFTWARE: PatentIn version 3.1
SEQ ID NO 175
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
PUBLICATON INFORMATION:
DATABASE ACCESSION NUMBER: humanngp/chrl-aah15403
DATABASE ENTRY DATE: 2003-04-22
US-10-878-556A-175

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Query Match	41.6%	Score 57	DB 6	Length 248
Best Local Similarity	34.5%	Pred. No. 8.4		
Matches	10	Conservative	10	Mismatches 9
				Indels 0
				Gaps 0

  

QY	1	KQADPKVAKSRKQVKEALQQLDQYK	29
		:::	
Db	197	KEATRAAFARSVAKLEKTIIDLDLQDK	225

RESULT 4  
 US-11-052-554A-79  
 ; Sequence 79, Application US/11052554A  
 ; Publication No. US20050288866A1  
 ;  
 ; GENERAL INFORMATION:  
 ;  
 ; APPLICANT: Sachdev, et al.  
 ;  
 ; TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE  
 ; TITLE OF INVENTION: PROTEINS OF THERAPEUTIC POTENTIAL  
 ; FILE REFERENCE: 30853/40359A  
 ; CURRENT APPLICATION NUMBER: US/11/052,554A  
 ; CURRENT FILING DATE: 2005-02-07

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? PRIOR APPLICATION NUMBER: US 60/589,227
? PRIOR FILING DATE: 2004-07-20
? PRIOR APPLICATION NUMBER: IN 173/DEL/2004
? PRIOR FILING DATE: 2004-02-06
? NUMBER OF SEQ ID NOS: 763
? SOFTWARE: PatentIn version 3.3
? SEQ ID NO 79
? LENGTH: 394
? TYPE: PRT
? ORGANISM: Escherichia coli O157:H7
? US-11-052-554A-79

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		41.6%;	Score 57;	DB 7;	Length 394;
		Best Local Similarity	48.3%;	Pred. No. 14;	
	Matches 14;	Conservative	5;	Mismatches	10; Gaps 0;
Oy	1 KOAEDKYASREAKQVETKALJQLJEDRYK	29			
	: : : : :				
Dd	104 KOLEKERLLAAOQKKQAEEAKQKLELQK	132			

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RESULT 5
US-11-087-099-8319
; Sequence 8319, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450) B EP
; CURRENT APPLICATION NUMBER: US/11/087, 099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8319
; LENGTH: 897
; TYPE: prt
; ORGANISM: Bacillus anthracis str. A2012
US-11-087-099-8319

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```

Query Match Similarity      41.6%; Score 57; DB 7; Length 897;
Best Local Similarity      41.9%; Pred. No. 35/
Matches 13; Conservative 9; Mismatches 7; Indels 2; Gaps 1,
Oy      1 KQAEKRV-KASREAKQVKEALQLEDKVK 29
      |||::|||::|||::|||::|||::|||::
Ob      829 KQAEERAKKAEERAKQGEERAKQKAEERAR 859
      |||::|||::|||::|||::|||::|||::

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RESULT 6
US-11-087-099-10366
; Sequence 10366, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.,
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087, 099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 10366
; LENGTH: 1551
; TYPE: prt
; ORGANISM: Neurospora crassa
US-11-087-099-10366

```

Query Match	41.6%	Score 57	DB 7	Length 151
Best Local Similarity	51.5%	Pred. No. 66		
Matches	17	Conservative	3	Mismatches 9; Indels 4; Gaps 2
QY	1	KQAEEDKVKASREA--KKQVF--KALBQEDEDRYK	29	
DB	687	KEADKKAALKEKCAAEKKAVEBAKKKEKEEAFAAK	719	

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RESULT 7
US-11-087-099-5450
; Sequence 5450, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5450
; LENGTH: 2295
; TYPE: PRT
; ORGANISM: Neurospora crassa
US-11-087-099-5450

Query Match          41.6%; Score 57; DB 7; Length 2295;
Best Local Similarity 37.9%; Pred. No. 1e+02;
Matches 11; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

Cy      1 KQAEQKASREAKQVEKALEQLEDDKYK 29
Db      1694 RKAEAKKAEVKKKAEARQAEQEK 1722

RESULT 8
US-11-096-568A-33917
; Sequence 33917, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33917
; LENGTH: 861
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(861)
; OTHER INFORMATION: Ceres Seq. ID no. 13604540
US-11-096-568A-33917

Query Match          40.5%; Score 55.5; DB 7; Length 861;
Best Local Similarity 52.0%; Pred. No. 50;
Matches 13; Conservative 4; Mismatches 7; Indels 1; Gaps 1;

Cy      5 DKVKSREAKQVEKALEQLEDDKYK 29
Db      461 DKKKGNREASKQIH-ALENIEEGTK 484

RESULT 9
US-11-096-568A-33916
; Sequence 33916, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33916
; LENGTH: 881
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
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; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(881)
; OTHER INFORMATION: Ceres Seq. ID no. 13604539
US-11-096-568A-33916

Query Match          40.5%; Score 55.5; DB 7; Length 881;
Best Local Similarity 52.0%; Pred. No. 52;
Matches 13; Conservative 4; Mismatches 7; Indels 1; Gaps 1;

Cy      5 DKVKSREAKQVEKALEQLEDDKYK 29
Db      481 DKKKGNREASKQIH-ALENIEEGTK 504

RESULT 10
US-11-096-568A-33915
; Sequence 33915, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33915
; LENGTH: 1069
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(1069)
; OTHER INFORMATION: Ceres Seq. ID no. 13604538
US-11-096-568A-33915

Query Match          40.5%; Score 55.5; DB 7; Length 1069;
Best Local Similarity 52.0%; Pred. No. 64;
Matches 13; Conservative 4; Mismatches 7; Indels 1; Gaps 1;

Cy      5 DKVKSREAKQVEKALEQLEDDKYK 29
Db      669 DKKKGNREASKQIH-ALENIEEGTK 692

RESULT 11
US-11-142-700-29
; Sequence 29, Application US/11142700
; Publication No. US20060026721A1
; GENERAL INFORMATION:
; APPLICANT: Stephen M. Allen
; APPLICANT: Gary M. Fader
; APPLICANT: Saverio Carl Falco
; APPLICANT: Anthony J. Kinney
; APPLICANT: Jonathan B. Lightner
; APPLICANT: Guo-Hua Miao
; APPLICANT: J. Antoni Rafalski
; APPLICANT: Catherine J. Thorpe
; TITLE OF INVENTION: Plant Cellulose Synthases
; FILE REFERENCE: BB-1170
; CURRENT APPLICATION NUMBER: US/11/142,700
; CURRENT FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: US/09/720,383
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/092,844
; PRIOR FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 29
; LENGTH: 1081
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
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US-11-142-700-29

Query Match 40.5%; Score 55.5; DB 7; Length 1081;  
Best Local Similarity 54.2%; Pred. No. 65;  
Matches 13; Conservative 4; Mismatches 6; Indels 1; Gaps 1;

Qy 3 AEDKVASREAKQVEKALEQLEDKYK 26  
Db 678 AADKKKKRREASKQIH-ALENIER 700

RESULT 12

US-10-453-372-632  
; Sequence 632, Application US/10453372  
; Publication No. US2006003323A1  
; GENERAL INFORMATION:  
; APPLICANT: Alabrook, et al.  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
; FILE REFERENCE: 21402-589 A  
; CURRENT FILING DATE: 2003-06-03  
; PRIOR APPLICATION NUMBER: 09/789390  
; PRIOR FILING DATE: 2001-02-23  
; PRIOR APPLICATION NUMBER: 60/185967  
; PRIOR FILING DATE: 2000-03-01  
; PRIOR APPLICATION NUMBER: 09/823187  
; PRIOR FILING DATE: 2001-03-29  
; PRIOR APPLICATION NUMBER: 60/195792  
; PRIOR FILING DATE: 2000-03-10  
; PRIOR APPLICATION NUMBER: 09/839446  
; PRIOR FILING DATE: 2001-03-19  
; PRIOR APPLICATION NUMBER: 60/199476  
; PRIOR FILING DATE: 2000-03-25  
; PRIOR APPLICATION NUMBER: 09/863776  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: 60/208263  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: 09/939398  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: 60/227800  
; PRIOR FILING DATE: 2000-08-25  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 1609  
; SOFTWARE: CuroSeqList version 0.1  
; SEQ ID NO 632  
; LENGTH: 392  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-453-372-632

Query Match 40.1%; Score 55; DB 6; Length 392;  
Best Local Similarity 39.3%; Pred. No. 24;  
Matches 11; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

Qy 2 QAEKVKASREAKQVEKALEQLEDKYK 29  
Db 260 EAQGLRASQEAQKQVEKQAQAREAKIQ 287

RESULT 13

US-10-453-372-634  
; Sequence 634, Application US/10453372  
; Publication No. US2006003323A1  
; GENERAL INFORMATION:  
; APPLICANT: Alabrook, et al.  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
; FILE REFERENCE: 21402-589 A  
; CURRENT FILING DATE: 2003-06-03  
; PRIOR APPLICATION NUMBER: 09/789390  
; PRIOR FILING DATE: 2001-02-23  
; PRIOR APPLICATION NUMBER: 60/185967  
; PRIOR FILING DATE: 2000-03-01

; PRIOR APPLICATION NUMBER: 09/823187  
; PRIOR FILING DATE: 2001-03-29  
; PRIOR APPLICATION NUMBER: 60/195792  
; PRIOR FILING DATE: 2000-03-10  
; PRIOR APPLICATION NUMBER: 09/839446  
; PRIOR FILING DATE: 2001-03-19  
; PRIOR APPLICATION NUMBER: 60/199476  
; PRIOR FILING DATE: 2000-03-25  
; PRIOR APPLICATION NUMBER: 09/863776  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: 60/208263  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: 09/939398  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: 60/227800  
; PRIOR FILING DATE: 2000-08-25  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 1609  
; SOFTWARE: CuroSeqList version 0.1  
; SEQ ID NO 634  
; LENGTH: 392  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-453-372-634

Query Match 40.1%; Score 55; DB 6; Length 392;  
Best Local Similarity 39.3%; Pred. No. 24;  
Matches 11; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

Qy 2 QAEKVKASREAKQVEKALEQLEDKYK 29  
Db 260 EAQGLRASQEAQKQVEKQAQAREAKIQ 287

RESULT 14

US-10-453-372-620  
; Sequence 620, Application US/10453372  
; Publication No. US2006003323A1  
; GENERAL INFORMATION:  
; APPLICANT: Alabrook, et al.  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
; FILE REFERENCE: 21402-589 A  
; CURRENT FILING DATE: 2003-06-03  
; PRIOR APPLICATION NUMBER: 09/789390  
; PRIOR FILING DATE: 2001-02-23  
; PRIOR APPLICATION NUMBER: 60/185967  
; PRIOR FILING DATE: 2000-03-01  
; PRIOR APPLICATION NUMBER: 09/823187  
; PRIOR FILING DATE: 2001-03-29  
; PRIOR APPLICATION NUMBER: 60/195792  
; PRIOR FILING DATE: 2000-03-10  
; PRIOR APPLICATION NUMBER: 09/839446  
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; PRIOR APPLICATION NUMBER: 60/199476  
; PRIOR FILING DATE: 2000-03-25  
; PRIOR APPLICATION NUMBER: 09/863776  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: 60/208263  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: 09/939398  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: 60/227800  
; PRIOR FILING DATE: 2000-08-25  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 1609  
; SOFTWARE: CuroSeqList version 0.1  
; SEQ ID NO 620  
; LENGTH: 396  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-453-372-620

Query Match 40.1%; Score 55; DB 6; Length 396;  
Best Local Similarity 39.3%; Pred. No. 24;  
Matches 11; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

OY 2 QABDKVKSREAKQVEKALEQLEDPKVK 29  
DB 262 EAQOGLRASQEKQKVEKEKAQAREAKLQ 289

## RESULT 15

US-10-453-372-618  
; Sequence 618, Application US/10453372  
; Publication No. US2006003323A1  
; GENERAL INFORMATION:  
; APPLICANT: Alisobrook, et al.  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
; FILE REFERENCE: 21402-589 A  
; CURRENT APPLICATION NUMBER: US/10/453,372  
; PRIOR FILING DATE: 2003-06-03  
; PRIOR APPLICATION NUMBER: 09/789390  
; PRIOR FILING DATE: 2001-02-23  
; PRIOR APPLICATION NUMBER: 60/185967  
; PRIOR FILING DATE: 2000-03-01  
; PRIOR APPLICATION NUMBER: 09/823187  
; PRIOR FILING DATE: 2001-03-29  
; PRIOR APPLICATION NUMBER: 60/195792  
; PRIOR FILING DATE: 2000-03-10  
; PRIOR APPLICATION NUMBER: 09/839446  
; PRIOR FILING DATE: 2001-03-19  
; PRIOR APPLICATION NUMBER: 60/199476  
; PRIOR FILING DATE: 2000-03-25  
; PRIOR APPLICATION NUMBER: 09/863776  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: 60/208263  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: 09/939398  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: 60/227800  
; PRIOR FILING DATE: 2000-08-25  
; Remaining Prior Application data removed - See file Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 1609  
; SOFTWARE: Curaseq1ist version 0.1  
; SEQ ID NO 618  
; LENGTH: 442  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-453-372-618

Query Match 40.1%; Score 55; DB 6; Length 442;  
Best Local Similarity 39.3%; Pred. No. 27;  
Matches 11; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

OY 2 QABDKVKSREAKQVEKALEQLEDPKVK 29  
DB 310 EAQOGLRASQEKQKVEKEKAQAREAKLQ 337

Search completed: March 28, 2006, 19:02:52  
Job time : 24 secs

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GenCore version 5.1.7  
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OM protein - protein search, using BW model

Run on: March 28, 2006, 18:48:09 ; Search time 575 Seconds  
(without alignments)

69.699 Million cell updates/sec

Title: US-10-706-275A-2

Perfect score: 137

Sequence: 1 KQEDKYKASREAKQYKALEQLEDKVK 29

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 7861189 seqs, 1381955077 residues

Total number of hits satisfying chosen parameters: 7861189

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending Patents AA Main:

1: /cgn2\_6/ptodata/1/paa/US066\_COMB.pep:\*  
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3: /cgn2\_6/ptodata/1/paa/US073\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/paa/US074\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/paa/US075\_COMB.pep:\*  
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41: /cgn2\_6/ptodata/1/paa/US111\_COMB.pep:\*  
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43: /cgn2\_6/ptodata/1/paa/US114\_COMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	137	100.0	29	37 US-10-706-275-2	Sequence 2, Appl1
2	137	100.0	29	37 US-10-706-275-15	Sequence 15, Appl1
3	125	91.2	28	37 US-10-706-275-12	Sequence 12, Appl1
4	119	86.9	28	37 US-10-706-275-13	Sequence 13, Appl1
5	112	81.8	28	37 US-10-706-275-14	Sequence 14, Appl1
6	110	80.3	28	37 US-10-706-275-11	Sequence 11, Appl1
7	96	70.1	28	37 US-10-706-275-10	Sequence 10, Appl1
8	81	59.1	28	37 US-10-706-275-9	Sequence 9, Appl1
9	72.5	52.9	28	37 US-09-791-537-33198	Sequence 33198, A
10	72	52.6	280	9 US-07-958-3224-3	Sequence 3, Appl1
11	72	52.6	346	6 US-07-685-928-1	Sequence 1, Appl1
12	72	52.6	440	23 US-09-302-756-35	Sequence 35, Appl1
13	72	52.6	443	38 US-10-866-202-6	Sequence 6, Appl1
14	72	52.6	483	32 US-10-233-074-2	Sequence 2, Appl1
15	72	52.6	484	1 PCT-US04-24868-122	Sequence 122, App
16	72	52.6	484	27 US-09-791-537-10358	Sequence 10358, A
17	72	52.6	484	34 US-10-415-1824-9206	Sequence 9206, Ap
18	72	52.6	484	35 US-10-548-463-237	Sequence 237, App
19	72	52.6	553	34 US-10-474-792-672	Sequence 672, App
20	72	52.6	558	37 US-10-732-923-3295	Sequence 3295, Ap
21	71	51.8	254	31 US-10-141-627-4	Sequence 4, Appl1
22	71	51.8	284	31 US-10-141-627-6	Sequence 6, Appl1
23	71	51.8	389	1 PCT-US05-18192-23	Sequence 23, Appl1
24	71	51.8	539	27 US-09-791-537-124523	Sequence 124523, A
25	67	48.9	389	1 PCT-US02-091078-67145	Sequence 67145, A
26	67	48.9	389	32 US-10-282-1224-67145	Sequence 67145, A
27	66	48.2	1365	27 US-09-791-537-125966	Sequence 125966, A
28	65.5	47.8	28	37 US-10-706-275-8	Sequence 8, Appl1
29	64	46.7	14	37 US-10-706-275-1	Sequence 1, Appl1
30	64	46.7	20	19 US-08-944-147-22	Sequence 22, Appl1
31	64	46.7	20	19 US-08-944-147-22	Sequence 22, Appl1
32	64	46.7	20	30 US-10-044-034-22	Sequence 22, Appl1
33	64	46.7	20	37 US-10-706-275-5	Sequence 5, Appl1
34	64	46.7	361	36 US-10-603-114-5390	Sequence 5390, Ap
35	63	46.0	107	11 US-08-160-117A-92	Sequence 92, Appl1
36	63	46.0	107	11 US-08-178-212-92	Sequence 92, Appl1
37	63	46.0	107	12 US-08-261-661-92	Sequence 92, Appl1
38	63	46.0	107	16 US-08-647-906-92	Sequence 92, Appl1
39	63	46.0	107	20 US-09-049-304-92	Sequence 92, Appl1
40	63	46.0	107	23 US-09-381-485-92	Sequence 92, Appl1
41	63	46.0	107	30 US-10-023-066A-92	Sequence 92, Appl1
42	63	46.0	107	30 US-10-023-066B-92	Sequence 92, Appl1
43	63	46.0	107	38 US-10-804-678-92	Sequence 92, Appl1
44	63	46.0	174	50 US-60-655-875-143573	Sequence 143573, A
45	62	45.3	28	37 US-10-706-275-6	Sequence 6, Appl1

ALIGNMENTS

RESULT 1  
US-10-706-275-2  
; Sequence 2, Application US/10706275  
; GENERAL INFORMATION:  
; APPLICANT: ID Biomedical Corporation of Quebec

APPLICANT: The Council of the Queensland Institute of Medical Research  
APPLICANT: Lowell, George H.  
APPLICANT: Burt, David S.  
APPLICANT: White, Gregory L.  
APPLICANT: Good, Michael F.  
APPLICANT: Batzloff, Michael R.  
APPLICANT: Leanderson, Tomas B.  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: 021989-000710US  
CURRENT FILING DATE: 2003-11-13  
PRIOR APPLICATION NUMBER: US/10/706,275  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: US 60/426,409  
PRIOR FILING DATE: 2002-11-15  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 2  
LENGTH: 29  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURES:  
OTHER INFORMATION: antigenic peptide derivative of S. pyogenes with flanking sequence  
US-10-706-275-2

Query Match 100.0%; Score 137; DB 37; Length 29;  
Best Local Similarity 100.0%; Pred. No. 2.3e-07;  
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KOAEDKVKASREAKKQVEKALQLEDDKVK 29  
Db 1 KOAEDKVKASREAKKQVEKALQLEDDKVK 29

RESULT 2  
US-10-706-275-15  
Sequence 15, Application US/10706275  
GENERAL INFORMATION:  
APPLICANT: ID Biomedical Corporation of Quebec  
APPLICANT: The Council of the Queensland Institute of Medical Research  
APPLICANT: Lowell, George H.  
APPLICANT: Burt, David S.  
APPLICANT: White, Gregory L.  
APPLICANT: Good, Michael F.  
APPLICANT: Batzloff, Michael R.  
APPLICANT: Leanderson, Tomas B.  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: 021989-000710US  
CURRENT APPLICATION NUMBER: US/10/706,275  
CURRENT FILING DATE: 2003-11-13  
PRIOR APPLICATION NUMBER: US 60/426,409  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: AU 2002302132  
PRIOR FILING DATE: 2002-11-15  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 15  
LENGTH: 29  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURES:  
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-15

Query Match 100.0%; Score 137; DB 37; Length 29;  
Best Local Similarity 100.0%; Pred. No. 2.3e-07;  
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KOAEDKVKASREAKKQVEKALQLEDDKVK 29  
Db 1 KOAEDKVKASREAKKQVEKALQLEDDKVK 29

RESULT 3  
US-10-706-275-12  
Sequence 12, Application US/10706275  
GENERAL INFORMATION:  
APPLICANT: ID Biomedical Corporation of Quebec  
APPLICANT: The Council of the Queensland Institute of Medical Research  
APPLICANT: Lowell, George H.  
APPLICANT: Burt, David S.  
APPLICANT: White, Gregory L.  
APPLICANT: Good, Michael F.  
APPLICANT: Batzloff, Michael R.  
APPLICANT: Leanderson, Tomas B.  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: 021989-000710US  
CURRENT APPLICATION NUMBER: US/10/706,275  
CURRENT FILING DATE: 2003-11-13  
PRIOR APPLICATION NUMBER: US 60/426,409  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: AU 2002302132  
PRIOR FILING DATE: 2002-11-15  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 12  
LENGTH: 28  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURES:  
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-12

Query Match 91.2%; Score 125; DB 37; Length 28;  
Best Local Similarity 92.9%; Pred. No. 4.3e-06;  
Matches 26; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KOAEDKVKASREAKKQVEKALQLEDDKVK 28  
Db 1 KOAEDKVKASREAKKQVEKALQLEDDKVK 28

RESULT 4  
US-10-706-275-13  
Sequence 13, Application US/10706275  
GENERAL INFORMATION:  
APPLICANT: ID Biomedical Corporation of Quebec  
APPLICANT: The Council of the Queensland Institute of Medical Research  
APPLICANT: Lowell, George H.  
APPLICANT: Burt, David S.  
APPLICANT: White, Gregory L.  
APPLICANT: Good, Michael F.  
APPLICANT: Batzloff, Michael R.  
APPLICANT: Leanderson, Tomas B.  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: 021989-000710US  
CURRENT APPLICATION NUMBER: US/10/706,275  
CURRENT FILING DATE: 2003-11-13  
PRIOR APPLICATION NUMBER: US 60/426,409  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: AU 2002302132  
PRIOR FILING DATE: 2002-11-15  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 13  
LENGTH: 28  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURES:  
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-13

Query Match 86.9%; Score 119; DB 37; Length 28;  
Best Local Similarity 89.3%; Pred. No. 1.9e-05;  
Matches 25; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 QAEKVKASREAKKQVEKALEQLEDKK 29  
| | | | | : | | | | | : | | | | | :  
Db 1 QAEKVKQSRKAKKQVEKALKEQLEDKVQ 28

RESULT 5  
US-10-706-275-14  
; Sequence 14, Application US/10706275  
; GENERAL INFORMATION:  
; APPLICANT: ID Biomedical Corporation of Quebec  
; APPLICANT: The Council of the Queensland Institute of Medical Research  
; APPLICANT: Lowell, George H.  
; APPLICANT: Burt, David S.  
; APPLICANT: White, Gregory L.  
; APPLICANT: Good, Michael F.  
; APPLICANT: Batzloff, Michael R.  
; APPLICANT: Leanderson, Tomas B.  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: 021989-000710US  
; CURRENT APPLICATION NUMBER: US/10/706,275  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: US 60/426,409  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: AU 2002302132  
; PRIOR FILING DATE: 2002-11-15  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 14  
; LENGTH: 28  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-14

Query Match 81.8%; Score 112; DB 37; Length 28;  
Best Local Similarity 88.9%; Pred. No. 0.00011;  
Matches 24; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 3 AEDKVKASREAKKQVEKALEQLEDKK 29  
| | | | | : | | | | | : | | | | | :  
Db 1 AEDKVKQSRKAKKQVEKALKEQLEDKVQ 27

RESULT 6  
US-10-706-275-11  
; Sequence 11, Application US/10706275  
; GENERAL INFORMATION:  
; APPLICANT: ID Biomedical Corporation of Quebec  
; APPLICANT: The Council of the Queensland Institute of Medical Research  
; APPLICANT: Lowell, George H.  
; APPLICANT: Burt, David S.  
; APPLICANT: White, Gregory L.  
; APPLICANT: Good, Michael F.  
; APPLICANT: Batzloff, Michael R.  
; APPLICANT: Leanderson, Tomas B.  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: 021989-000710US  
; CURRENT APPLICATION NUMBER: US/10/706,275  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: US 60/426,409  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: AU 2002302132  
; PRIOR FILING DATE: 2002-11-15  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 28  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base

US-10-706-275-11

Query Match 80.3%; Score 110; DB 37; Length 28;  
Best Local Similarity 85.2%; Pred. No. 0.00018;  
Matches 23; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 QAEKVKASREAKKQVEKALEQLEDK 27  
| | | | | : | | | | | : | | | | | :  
Db 2 QAEKVKQSRKAKKQVEKALKEQLEDK 28

RESULT 7  
US-10-706-275-10  
; Sequence 10, Application US/10706275  
; GENERAL INFORMATION:  
; APPLICANT: ID Biomedical Corporation of Quebec  
; APPLICANT: The Council of the Queensland Institute of Medical Research  
; APPLICANT: Lowell, George H.  
; APPLICANT: Burt, David S.  
; APPLICANT: White, Gregory L.  
; APPLICANT: Good, Michael F.  
; APPLICANT: Batzloff, Michael R.  
; APPLICANT: Leanderson, Tomas B.  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: 021989-000710US  
; CURRENT APPLICATION NUMBER: US/10/706,275  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: US 60/426,409  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: AU 2002302132  
; PRIOR FILING DATE: 2002-11-15  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 10  
; LENGTH: 28  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-10

Query Match 70.1%; Score 96; DB 37; Length 28;  
Best Local Similarity 76.9%; Pred. No. 0.00057;  
Matches 20; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 QAEKVKASREAKKQVEKALEQLEDK 26  
| | | | | : | | | | | : | | | | | :  
Db 3 QAEKVKQSRKAKKQVEKALKEQLEDK 28

RESULT 8  
US-10-706-275-9  
; Sequence 9, Application US/10706275  
; GENERAL INFORMATION:  
; APPLICANT: ID Biomedical Corporation of Quebec  
; APPLICANT: The Council of the Queensland Institute of Medical Research  
; APPLICANT: Lowell, George H.  
; APPLICANT: Burt, David S.  
; APPLICANT: White, Gregory L.  
; APPLICANT: Good, Michael F.  
; APPLICANT: Batzloff, Michael R.  
; APPLICANT: Leanderson, Tomas B.  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: 021989-000710US  
; CURRENT APPLICATION NUMBER: US/10/706,275  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: US 60/426,409  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: AU 2002302132  
; PRIOR FILING DATE: 2002-11-15  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 9

LENGTH: 28  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-9

Query Match 59.1%; Score 81; DB 37; Length 28;  
Best Local Similarity 68.0%; Pred. No. 0.24;  
Matches 17; Conservative 4; Mismatches 0; Gaps 0;

OY 1 KOAEKVKASREAKKQVEKALEJOLEKV 25  
DB 4 KOAEEDLDASREAKKQVODKVKQLE 28

RESULT 9  
US-09-791-537-33198  
Sequence 33198, Application US/09791537  
GENERAL INFORMATION:  
APPLICANT: Biomomix, Inc.  
APPLICANT: Debe, Derek  
APPLICANT: Danzer, Joseph  
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBERS  
TITLE OF INVENTION: METHODS OF USE THEREOF  
FILE REFERENCE: 261/210  
CURRENT APPLICATION NUMBER: US/09/791,537  
CURRENT FILING DATE: 2001-02-22  
NUMBER OF SEQ ID NOS: 153055  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 33198  
LENGTH: 587  
TYPE: PRT  
ORGANISM: Streptococcus sp  
US-09-791-537-33198

Query Match 52.9%; Score 72.5; DB 27; Length 587;  
Best Local Similarity 46.3%; Pred. No. 30;  
Matches 19; Conservative 3; Mismatches 6; Indels 13; Gaps 1;

OY 1 KOAEKVKASREAKKQVEKALEJOLEKV 28  
DB 417 KYKEDKQISDASRQGLRDLDSREAKKQVEKALEJANSKL 457

RESULT 10  
US-07-958-322A-3  
Sequence 3, Application US/07958322A  
GENERAL INFORMATION:  
APPLICANT: Bjorck, Lars  
APPLICANT: Schmidt, Karl-Hermann  
APPLICANT: Akesson, Per  
APPLICANT: Cooney, Jakti  
TITLE OF INVENTION: Igc-Binding Protein  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Birch, Stewart, Kolasch & Birch  
STREET: P.O. Box 747  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22040-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/958,322A  
FILING DATE: 21-DEC-1992  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Svensson, Leonard R.

REGISTRATION NUMBER: 30330  
REFERENCE/DOCKET NUMBER: 552-104PCT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-241-1300  
TELEFAX: 703-241-2648  
TELEX: 248345  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 280 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-958-322A-3

Query Match 52.6%; Score 72; DB 9; Length 280;  
Best Local Similarity 45.2%; Pred. No. 18;  
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

OY 5 DKVK-----ASREAKKQVEKALEJOLEKV 28  
DB 109 DKVEXKQISDASRQRLRDLDSREAKKQVEKALEJANSKL 150

RESULT 11  
US-07-685-928-1  
Sequence 1, Application US/07685928  
GENERAL INFORMATION:  
APPLICANT: Fischetti, Vincent  
TITLE OF INVENTION: Viral Amplicon For The Generation Of  
TITLE OF INVENTION: Antigenic Variability  
NUMBER OF SEQUENCES: 1  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Wyatt, Gerber, Burke and Badie  
STREET: 645 Madison Avenue  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10022  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/685,928  
FILING DATE: 19910412  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Burke  
REGISTRATION NUMBER: 18,975  
REFERENCE/DOCKET NUMBER: 18364  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 826-0171  
TELEFAX: (212) 755-6256  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 346 amino acids  
TYPE: AMINO ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: C-terminal  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..346  
US-07-685-928-1

Query Match 52.6%; Score 72; DB 6; Length 346;  
Best Local Similarity 45.2%; Pred. No. 21;  
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

OY 5 DKVK-----ASREAKQVEKALEQLEDRV 28  
|||  
Db 61 DKVKEKQISDASRQGLRRDLDSREAKQVEKALEANSKL 102  
|||  
RESULT 12  
US-09-302-756-35  
; Sequence 35, Application US/09302756  
; GENERAL INFORMATION:  
; APPLICANT: FISCHETTI, Vincent A.  
; APPLICANT: POZZI, Gianni  
; APPLICANT: SCHNEEWIND, Olaf  
; TITLE OF INVENTION: DELIVERY AND EXPRESSION OF A HYBRID SURFACE PROTEIN ON  
; TITLE OF INVENTION: THE SURFACE OF GRAM POSITIVE BACTERIA  
; FILE REFERENCE: 016921-076  
; CURRENT APPLICATION NUMBER: US/09/302,756  
; EARLIER FILING DATE: 1995-03-07 US/07/522,440  
; EARLIER APPLICATION NUMBER: US 07/522,440  
; EARLIER FILING DATE: 1990-05-11  
; EARLIER APPLICATION NUMBER: US 07/742,199  
; EARLIER FILING DATE: 1991-08-05  
; EARLIER APPLICATION NUMBER: US 07/814,823  
; EARLIER FILING DATE: 1991-12-23  
; EARLIER APPLICATION NUMBER: US 07/851,082  
; EARLIER FILING DATE: 1992-03-13  
; EARLIER APPLICATION NUMBER: PCT/US93/02355  
; EARLIER FILING DATE: 1993-03-12  
; NUMBER OF SEQ ID NOS: 35  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 35  
; LENGTH: 440  
; TYPE: PRT  
; ORGANISM: S. pyogenes  
US-09-302-756-35  
Query Match 52.6%; Score 72; DB 23; Length 440;  
Best Local Similarity 45.2%; Pred. No. 26;  
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;  
OY 5 DKVK-----ASREAKQVEKALEQLEDRV 28  
|||  
Db 270 DKVKEKQISDASRQGLRRDLDSREAKQVEKALEANSKL 311  
|||  
RESULT 13  
US-10-866-202-6  
; Sequence 6, Application US/10866202  
; GENERAL INFORMATION:  
; APPLICANT: Bjorck, Lars  
; APPLICANT: Stobring, Ulf  
; TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Seed IP Law Group  
; STREET: 701 Fifth Avenue Suite 6300  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: USA  
; ZIP: 98104-7092  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/866,202  
; FILING DATE: 10-Jun-2004  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/325,278  
; FILING DATE: 26-Oct-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Potter, Jane B. R.

; REGISTRATION NUMBER: 33,332  
; REFERENCE/DOCKET NUMBER: 100084.402  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 443 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-10-866-202-6  
Query Match 52.6%; Score 72; DB 38; Length 443;  
Best Local Similarity 45.2%; Pred. No. 27;  
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;  
OY 5 DKVK-----ASREAKQVEKALEQLEDRV 28  
|||  
Db 272 DKVKEKQISDASRQGLRRDLDSREAKQVEKALEANSKL 313  
|||  
RESULT 14  
US-10-233-074-2  
; Sequence 2, Application US/10233074  
; GENERAL INFORMATION:  
; APPLICANT: Patricia Ryan  
; APPLICANT: Vijaykumar Pancholli  
; APPLICANT: Vincent A. Fischetti  
; TITLE OF INVENTION: BINDING OF STREPTOCOCCAL M PROTEIN TO  
; TITLE OF INVENTION: SIALIC ACID  
; FILE REFERENCE: 7529/11015U91  
; CURRENT APPLICATION NUMBER: US/10/233,074  
; CURRENT FILING DATE: 2002-08-30  
; PRIOR APPLICATION NUMBER: US 60/317,371  
; PRIOR FILING DATE: 2001-09-04  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 483  
; TYPE: PRT  
; ORGANISM: Streptococcus pyogenes  
US-10-233-074-2  
Query Match 52.6%; Score 72; DB 32; Length 483;  
Best Local Similarity 45.2%; Pred. No. 29;  
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;  
OY 5 DKVK-----ASREAKQVEKALEQLEDRV 28  
|||  
Db 312 DKVKEKQISDASRQGLRRDLDSREAKQVEKALEANSKL 353  
|||  
RESULT 15  
PCT-US04-24868-122  
; Sequence 122, Application PC/TUS0424868  
; GENERAL INFORMATION:  
; APPLICANT: Chiron Corporation  
; TITLE OF INVENTION: Immunogenic Compositions for Streptococcus pyogenes  
; FILE REFERENCE: P20663.003 (002441.00094)  
; CURRENT APPLICATION NUMBER: PCT/US04/24868  
; CURRENT FILING DATE: 2004-07-30  
; PRIOR APPLICATION NUMBER: US 60/491822  
; PRIOR FILING DATE: 2003-07-31  
; PRIOR APPLICATION NUMBER: US 60/541565  
; PRIOR FILING DATE: 2004-02-03  
; NUMBER OF SEQ ID NOS: 135  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 122  
; LENGTH: 484  
; TYPE: PRT  
; ORGANISM: Streptococcus pyogenes

PCT-US04-24868-122

Query Match 52.6%; Score 72; DB 1; Length 484;  
 Best Local Similarity 45.2%; Pred. No. 29;  
 Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

QY 5 DKVK-----ASREAKKQVEKALBQLEBKV 28  
 |||||  
 Db 313 DKVKEKQISDASRQGLRRDLASREAKKQVEKALBANSKL 354  
 |||||

Search completed: March 28, 2006, 18:58:28  
 Job time : 577 secs

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OM protein - protein search, using bw model

Run on: March 28, 2006, 18:58:50 ; Search time 166 Seconds  
(without alignments)  
72.994 Million cell updates/sec

Title: US-10-706-275A-2

Perfect score: 137  
Sequence: 1 KQAEKVKASREAKQVEKALEQLEDKVK 29

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_AA\_Main.\*

1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBSCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBSCOMB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBSCOMB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBSCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBSCOMB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBSCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	137	100.0	29	US-10-706-275-2	Sequence 2, Appl1
2	137	100.0	29	US-10-706-275-15	Sequence 15, Appl1
3	125	91.0	28	US-10-706-275-12	Sequence 12, Appl1
4	119	86.9	28	US-10-706-275-13	Sequence 13, Appl1
5	112	81.8	28	US-10-706-275-14	Sequence 14, Appl1
6	110	80.3	28	US-10-706-275-11	Sequence 11, Appl1
7	96	70.1	28	US-10-706-275-10	Sequence 10, Appl1
8	81	59.1	28	US-10-706-275-9	Sequence 9, Appl1
9	72	52.6	443	US-08-325-278-6	Sequence 6, Appl1
10	72	52.6	553	US-10-474-792-672	Sequence 672, Appl1
11	72	52.6	558	US-10-732-923-3295	Sequence 3295, Appl1
12	71	51.8	254	US-10-141-627-4	Sequence 4, Appl1
13	71	51.8	284	US-10-141-627-6	Sequence 6, Appl1
14	67	48.9	389	US-10-282-122A-67145	Sequence 67145, A
15	65.5	47.8	28	US-10-706-275-8	Sequence 8, Appl1
16	64	46.7	14	US-10-706-275-1	Sequence 1, Appl1
17	64	46.7	20	US-10-044-034-22	Sequence 22, Appl1
18	64	46.7	20	US-10-706-275-5	Sequence 5, Appl1
19	63	46.0	107	US-10-023-066A-92	Sequence 92, Appl1
20	63	46.0	107	US-10-804-678-92	Sequence 92, Appl1
21	62	45.3	28	US-10-706-275-6	Sequence 6, Appl1
22	62	45.3	77	US-10-023-066A-75	Sequence 75, Appl1
23	62	45.3	77	US-10-804-678-75	Sequence 75, Appl1
24	61	44.5	28	US-10-023-066A-58	Sequence 58, Appl1
25	61	44.5	28	US-10-804-678-58	Sequence 58, Appl1
26	61	44.5	37	US-10-023-066A-85	Sequence 85, Appl1
27	61	44.5	37	US-10-023-066A-86	Sequence 86, Appl1

28	61	44.5	37	5	US-10-804-678-85	Sequence 85, Appl1
29	61	44.5	37	5	US-10-804-678-86	Sequence 86, Appl1
30	61	44.5	56	4	US-10-023-066A-77	Sequence 77, Appl1
31	61	44.5	56	5	US-10-804-678-77	Sequence 77, Appl1
32	61	44.5	145	4	US-10-437-963-146357	Sequence 146357,
33	61	44.5	145	4	US-10-437-963-146368	Sequence 146368,
34	60	43.8	35	4	US-10-023-066A-62	Sequence 62, Appl1
35	60	43.8	35	5	US-10-804-678-62	Sequence 62, Appl1
36	60	43.8	42	4	US-10-023-066A-34	Sequence 34, Appl1
37	60	43.8	42	5	US-10-804-678-34	Sequence 34, Appl1
38	60	43.8	49	4	US-10-023-066A-30	Sequence 30, Appl1
39	60	43.8	49	4	US-10-023-066A-32	Sequence 32, Appl1
40	60	43.8	49	4	US-10-023-066A-54	Sequence 54, Appl1
41	60	43.8	49	5	US-10-804-678-30	Sequence 30, Appl1
42	60	43.8	49	5	US-10-804-678-32	Sequence 32, Appl1
43	60	43.8	49	5	US-10-804-678-54	Sequence 54, Appl1
44	60	43.8	56	4	US-10-023-066A-79	Sequence 79, Appl1
45	60	43.8	56	5	US-10-804-678-79	Sequence 79, Appl1

#### ALIGNMENTS

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RESULT 1
US-10-706-275-2
; Sequence 2, Application US/10706275
; Publication No. US20050002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael P.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OR INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: antigenic peptide derivative of S. pyogenes with flanking sequence
; OTHER INFORMATION: es
US-10-706-275-2
Query Match 100.0%; Score 137; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 8.3e-09;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 1 KQAEKVKASREAKQVEKALEQLEDKVK 29
Db 1 KQAEKVKASREAKQVEKALEQLEDKVK 29
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US-10-706-275-15
; Sequence 15, Application US/10706275
; Publication No. US20050002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
```

APPLICANT: White, Gregory L.  
APPLICANT: Good, Michael F.  
APPLICANT: Batzloff, Michael R.  
APPLICANT: Leanderson, Tomas B.  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: 021989-000710US  
CURRENT FILING DATE: 2003-11-13  
PRIOR APPLICATION NUMBER: US/10/706,275  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: AU 2002302132  
PRIOR FILING DATE: 2002-11-15  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 15  
LENGTH: 29  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-15

Query Match 100.0%; Score 137; DB 5; Length 29;  
Best Local Similarity 100.0%; Pred. No. 8.3e-09;  
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KQADKVKASREAKKQVEKALEQLEDEKVK 29  
Db 1 KQADKVKASREAKKQVEKALEQLEDEKVK 29

RESULT 3  
US-10-706-275-12  
Sequence 12, Application US/10706275  
Publication No. US2005002956A1  
GENERAL INFORMATION:

APPLICANT: ID Biomedical Corporation of Quebec  
APPLICANT: The Council of the Queensland Institute of Medical Research  
APPLICANT: Lowell, George H.  
APPLICANT: Burt, David S.  
APPLICANT: White, Gregory L.  
APPLICANT: Good, Michael F.  
APPLICANT: Batzloff, Michael R.  
APPLICANT: Leanderson, Tomas B.  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: 021989-000710US  
CURRENT FILING DATE: 2003-11-13  
PRIOR APPLICATION NUMBER: US/10/706,275  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: AU 2002302132  
PRIOR FILING DATE: 2002-11-15  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 12  
LENGTH: 28  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-12

Query Match 91.2%; Score 125; DB 5; Length 28;  
Best Local Similarity 92.9%; Pred. No. 1.8e-07;  
Matches 26; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KQADKVKASREAKKQVEKALEQLEDEKVK 28  
Db 1 KQADKVKASREAKKQVEKALEQLEDEKVK 28

RESULT 4  
US-10-706-275-13

Sequence 13, Application US/10706275  
Publication No. US2005002956A1  
GENERAL INFORMATION:  
APPLICANT: ID Biomedical Corporation of Quebec  
APPLICANT: The Council of the Queensland Institute of Medical Research  
APPLICANT: Lowell, George H.  
APPLICANT: Burt, David S.  
APPLICANT: White, Gregory L.  
APPLICANT: Good, Michael F.  
APPLICANT: Batzloff, Michael R.  
APPLICANT: Leanderson, Tomas B.  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: 021989-000710US  
CURRENT FILING DATE: 2003-11-13  
PRIOR APPLICATION NUMBER: US/10/706,275  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: AU 2002302132  
PRIOR FILING DATE: 2002-11-15  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 13  
LENGTH: 28  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-13

Query Match 86.9%; Score 119; DB 5; Length 28;  
Best Local Similarity 89.3%; Pred. No. 8.8e-07;  
Matches 25; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QADKVKASREAKKQVEKALEQLEDEKVK 29  
Db 1 QADKVKASREAKKQVEKALEQLEDEKVK 28

RESULT 5  
US-10-706-275-14  
Sequence 14, Application US/10706275  
Publication No. US2005002956A1  
GENERAL INFORMATION:

APPLICANT: ID Biomedical Corporation of Quebec  
APPLICANT: The Council of the Queensland Institute of Medical Research  
APPLICANT: Lowell, George H.  
APPLICANT: Burt, David S.  
APPLICANT: White, Gregory L.  
APPLICANT: Good, Michael F.  
APPLICANT: Batzloff, Michael R.  
APPLICANT: Leanderson, Tomas B.  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: 021989-000710US  
CURRENT FILING DATE: 2003-11-13  
PRIOR APPLICATION NUMBER: US/10/706,275  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: AU 2002302132  
PRIOR FILING DATE: 2002-11-15  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 14  
LENGTH: 28  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-14

Query Match 81.8%; Score 112; DB 5; Length 28;  
Best Local Similarity 88.9%; Pred. No. 5.5e-06;  
Matches 24; Conservative 1; Mismatches 2; Indels 0; Gaps 0;





;; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/325,278  
; FILING DATE: 26-OCT-1996  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: McMaisters, David D.  
; REGISTRATION NUMBER: 33,963  
; REFERENCE/DOCKET NUMBER: 450023,401  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 443 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-325-278-6

Query Match 52.6%; Score 72; DB 2; Length 443;  
Best Local Similarity 45.2%; Pred. No. 3.6;  
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

Qy 5 DKVK-----ASREAKQVKKALEQLEEDKV 28  
Db 272 DKVBEKQISDASRQGLRRDLDSREAKQVKKALEEANSKL 313

RESULT 10  
US-10-474-792-672  
; Sequence 672, Application US/10474792  
; Publication No. US20040236072A1  
; GENERAL INFORMATION:  
; APPLICANT: Olmsted, Stephen  
; APPLICANT: Zagursky, Robert  
; APPLICANT: Nickbarg, Elliot  
; APPLICANT: Winter, Louie  
; TITLE OF INVENTION: SURFACE PROTEINS OF STREPTOCOCCUS PYOGENES  
; FILE REFERENCE: AM 100399  
; CURRENT APPLICATION NUMBER: US/10/474,792  
; CURRENT FILING DATE: 2003-10-14  
; NUMBER OF SEQ ID NOS: 674  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 672  
; LENGTH: 553  
; TYPE: PRT  
; ORGANISM: Streptococcus pyogenes  
; US-10-474-792-672

Query Match 52.6%; Score 72; DB 5; Length 553;  
Best Local Similarity 45.2%; Pred. No. 4.6;  
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

Qy 5 DKVK-----ASREAKQVKKALEQLEEDKV 28  
Db 382 DKVBEKQISDASRQGLRRDLDSREAKQVKKALEEANSKL 423

RESULT 11  
US-10-732-923-3295  
; Sequence 3295, Application US/10732923  
; Publication No. US20050108791A1  
; GENERAL INFORMATION:  
; APPLICANT: Edgerton, Michael D  
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
; FILE REFERENCE: 38-15(52796)C  
; CURRENT APPLICATION NUMBER: US/10/732,923  
; CURRENT FILING DATE: 2003-12-10  
; PRIOR APPLICATION NUMBER: 10/310,154  
; PRIOR FILING DATE: 2002-12-04  
; NUMBER OF SEQ ID NOS: 24149  
; SEQ ID NO 3295  
; LENGTH: 558

; TYPE: PRT  
; ORGANISM: Streptococcus pyogenes  
; US-10-732-923-3295

Query Match 52.6%; Score 72; DB 5; Length 558;  
Best Local Similarity 50.0%; Pred. No. 4.6;  
Matches 18; Conservative 3; Mismatches 7; Indels 8; Gaps 1;

Qy 1 KQAE-----KVASREAKQVKKALEQLEEDKV 28  
Db 393 KQTSASRQGLRRDLDSREAKQVKKALEEANSKL 428

RESULT 12  
US-10-141-627-4  
; Sequence 4, Application US/10141627  
; Publication No. US20020176863A1  
; GENERAL INFORMATION:  
; APPLICANT: Dale, James B.  
; TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER  
; FILE REFERENCE: 48112.404C3  
; CURRENT APPLICATION NUMBER: US/10/141,627  
; CURRENT FILING DATE: 2002-05-07  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 254  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: An antigen of M5 and a carrier of the  
; OTHER INFORMATION: COOH-terminal portion of M5  
; US-10-141-627-4

Query Match 51.8%; Score 71; DB 4; Length 254;  
Best Local Similarity 75.0%; Pred. No. 2.6;  
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 9 ASREAKQVKKALEQLEEDKV 28  
Db 105 ASREAKQVKKALEEANSKL 124

RESULT 13  
US-10-141-627-6  
; Sequence 6, Application US/10141627  
; Publication No. US20020176863A1  
; GENERAL INFORMATION:  
; APPLICANT: Dale, James B.  
; TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER  
; FILE REFERENCE: 48112.404C3  
; CURRENT APPLICATION NUMBER: US/10/141,627  
; CURRENT FILING DATE: 2002-05-07  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 284  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: An antigen of three fragments of M5 and a carrier  
; OTHER INFORMATION: of the COOH-terminal portion of M5  
; US-10-141-627-6

Query Match 51.8%; Score 71; DB 4; Length 284;  
Best Local Similarity 75.0%; Pred. No. 2.5;  
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 9 ASREAKQVKKALEQLEEDKV 28  
Db 135 ASREAKQVKKALEEANSKL 154

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RESULT 14
US-10-282-122A-67145
; Sequence 67145, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyckind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: EITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 67145
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Pasteurella multocida
US-10-282-122A-67145

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Best Local Similarity 51.6%; Pred. No. 12;
Matches 16; Conservative 5; Mismatches 8; Indels 2; Gaps 1;

Cy      1 KOAED--KVKSREAKQVEKALBQLBQDKV 29
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Db      175 KOAEEBAKAKAERAKRAERAKAERAKAK 205

RESULT 15
US-10-706-275-8
; Sequence 8, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
```

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; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-8

Query Match          47.8%; Score 65.5; DB 5; Length 28;
Best Local Similarity 58.6%; Pred. No. 1.1;
Matches 17; Conservative 2; Mismatches 3; Indels 7; Gaps 1;

Cy      1 KOAEDKVKSREAKQVEKALBQLBQDKV 29
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Db      5 KOAERDIDASREAK-----QLQDKV 26
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Search completed: March 28, 2006, 19:02:22  
Job time : 166 secs



GenCore version 5.1.7  
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OM protein - protein search, using SW model

Run on: March 28, 2006, 18:47:44 ; Search time 46 Seconds  
(without alignments)  
52.122 Million cell updates/sec

Title: US-10-706-275A-2

Perfect score: 137

Sequence: 1 KOAEKVKASREAKQVEKALEQEDKVK 29

Scoring table: BIOSUM62

Searched: Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Issued Patents AA:\*

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2: /cgn2\_6/ptodata/1/1aa/6\_COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/H\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/PCTUS\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/RB\_COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	110	80.3	28	US-08-817-811-18	Sequence 18, Appl
2	96	70.1	28	US-08-817-811-17	Sequence 17, Appl
3	81	59.1	28	US-08-817-811-16	Sequence 16, Appl
4	78	56.9	28	US-08-817-811-67	Sequence 67, Appl
5	72	52.6	440	US-08-302-756B-35	Sequence 35, Appl
6	72	52.6	443	US-08-795-475-6	Sequence 6, Appl
7	72	52.6	443	US-08-325-278B-6	Sequence 6, Appl
8	71	51.8	28	US-08-817-811-12	Sequence 12, Appl
9	71	51.8	236	US-08-937-271-11	Sequence 11, Appl
10	71	51.8	254	US-08-914-479A-4	Sequence 4, Appl
11	71	51.8	284	US-08-914-479A-6	Sequence 6, Appl
12	71	51.8	305	US-08-937-271-10	Sequence 10, Appl
13	68.5	50.0	28	US-08-817-811-66	Sequence 66, Appl
14	67	48.9	29	US-08-817-811-52	Sequence 52, Appl
15	65.5	47.8	28	US-08-817-811-15	Sequence 15, Appl
16	65	47.4	29	US-08-817-811-74	Sequence 74, Appl
17	64	46.7	20	US-08-817-811-1	Sequence 1, Appl
18	64	46.7	29	US-08-817-811-73	Sequence 73, Appl
19	64	46.7	72	US-08-182-175A-87	Sequence 87, Appl
20	64	46.7	72	PCT-US92-06412-87	Sequence 87, Appl
21	64	46.0	361	US-09-543-681A-5390	Sequence 5390, Ap
22	63	46.0	29	US-08-817-811-79	Sequence 79, Appl
23	63	46.0	107	US-08-182-175A-105	Sequence 105, App
24	63	46.0	107	US-08-474-633A-92	Sequence 92, Appl
25	63	46.0	107	US-08-823-771-92	Sequence 92, Appl
26	63	46.0	107	PCT-US92-06412-105	Sequence 105, App
27	62	45.3	28	US-08-817-811-13	Sequence 13, Appl

28	62	45.3	29	2	US-08-817-811-78	Sequence 78, Appl
29	62	45.3	77	1	US-08-182-175A-57	Sequence 57, Appl
30	62	45.3	77	1	US-08-474-633A-75	Sequence 75, Appl
31	62	45.3	77	2	US-08-823-771-75	Sequence 75, Appl
32	62	45.3	77	4	PCT-US92-06412-57	Sequence 57, Appl
33	61	44.5	28	1	US-08-182-175A-49	Sequence 49, Appl
34	61	44.5	28	1	US-08-474-633A-58	Sequence 58, Appl
35	61	44.5	28	2	US-08-823-771-58	Sequence 58, Appl
36	61	44.5	28	4	PCT-US92-06412-49	Sequence 49, Appl
37	61	44.5	29	2	US-08-817-811-71	Sequence 71, Appl
38	61	44.5	29	2	US-08-817-811-72	Sequence 72, Appl
39	61	44.5	29	2	US-08-817-811-75	Sequence 75, Appl
40	61	44.5	29	2	US-08-817-811-89	Sequence 89, Appl
41	61	44.5	37	1	US-08-182-175A-85	Sequence 85, Appl
42	61	44.5	37	1	US-08-182-175A-97	Sequence 97, Appl
43	61	44.5	37	1	US-08-474-633A-85	Sequence 85, Appl
44	61	44.5	37	1	US-08-474-633A-86	Sequence 86, Appl
45	61	44.5	37	2	US-08-823-771-85	Sequence 85, Appl

ALIGNMENTS

RESULT 1  
US-08-817-811-18  
Sequence 18, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Relf, Wendy A.  
APPLICANT: Good, Michael F.  
APPLICANT: Saul, Allan J.  
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME  
NUMBER OF SEQUENCES: 97  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/817,811  
FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Highlander, Steven L.  
REGISTRATION NUMBER: 37,642  
REFERENCE/DOCKET NUMBER: FBRC:005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 18:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-817-811-18  
Query Match 80.3%; Score 110; DB 2; Length 28;  
Best Local Similarity 85.2%; Pred. No. 1.8e-06;  
Matches 23; Conservative 2; Mismatches 2; Gaps 0;

Qy 1 KOAEDKYKASREAKQYKALBOLEDK 27  
Db 2 KOAEDKYKASREAKQYKQVQKQLEDK 28

## RESULT 2

US-08-817-811-17  
Sequence 17, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Reif, Wendy A.  
APPLICANT: Good, Michael F.  
APPLICANT: Saul, Allan J.  
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME  
NUMBER OF SEQUENCES: 97  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/817,811  
FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Highlander, Steven L.  
REGISTRATION NUMBER: 37,642  
REFERENCE/DOCKET NUMBER: FIRC:005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-817-811-17

Query Match 70.1%; Score 96; DB 2; Length 28;  
Best Local Similarity 76.9%; Pred. No. 7.5e-05;  
Matches 20; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 KOAEDKYKASREAKQYKALBOLEDK 26  
Db 3 KOAEDKLDASREAKQYKQVQKQLEDK 28

## RESULT 3

US-08-817-811-16  
Sequence 16, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Reif, Wendy A.  
APPLICANT: Good, Michael F.  
APPLICANT: Saul, Allan J.  
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME  
NUMBER OF SEQUENCES: 97  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/817,811  
FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Highlander, Steven L.  
REGISTRATION NUMBER: 37,642  
REFERENCE/DOCKET NUMBER: FIRC:005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-817-811-16

Query Match 59.1%; Score 81; DB 2; Length 28;  
Best Local Similarity 68.0%; Pred. No. 0.004;  
Matches 17; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 KOAEDKYKASREAKQYKALBOLE 25  
Db 4 KOAEDDLDASREAKQYKQVQKQLE 28

US-08-817-811-67  
Sequence 67, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Reif, Wendy A.  
APPLICANT: Good, Michael F.  
APPLICANT: Saul, Allan J.  
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME  
NUMBER OF SEQUENCES: 97  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/817,811  
FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996

```

;
; ATTORNEY/AGENT INFORMATION:
; NAME: Highlander, Steven L.
; REGISTRATION NUMBER: 37,642
; REFERENCE/DOCKET NUMBER: PARC:005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512/418-3000
; TELEFAX: 512/474-7577
; INFORMATION FOR SEQ ID NO: 67:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
;
US-08-817-811-67

Query Match          56.9%; Score 78; DB 2; Length 28;
Best Local Similarity 64.0%; Pred. No. 0.0089;
Matches 16; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

Qy      1 KOAEDKVASREAKKQVEKALEQLE 25
Db      4 KOAEDDLDASREAKKQLODKVKQLE 28

RESULT 5
US-08-302-756B-35
; Sequence 35, Application US/08302756E
; Patent No. 6737521
; GENERAL INFORMATION:
; APPLICANT: FISCHETTI, Vincent A.
; APPLICANT: POZZI, Gianni
; APPLICANT: SCHNEEWIND, Olaf
; TITLE OF INVENTION: DELIVERY AND EXPRESSION OF A HYBRID SURFACE PROTEIN ON
; FILE REFERENCE: 016921-076
; CURRENT APPLICATION NUMBER: US/08/302,756E
; CURRENT FILING DATE: 1995-03-07
; PRIOR APPLICATION NUMBER: US 07/522,440
; PRIOR FILING DATE: 1990-05-11
; PRIOR APPLICATION NUMBER: US 07/742,199
; PRIOR FILING DATE: 1991-08-05
; PRIOR APPLICATION NUMBER: US 07/814,823
; PRIOR FILING DATE: 1991-12-23
; PRIOR APPLICATION NUMBER: US 07/851,082
; PRIOR FILING DATE: 1992-03-13
; PRIOR APPLICATION NUMBER: PCP/US93/02355
; PRIOR FILING DATE: 1993-03-12
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35
; LENGTH: 440
; TYPE: PRT
; ORGANISM: S. pyogenes
;
US-08-302-756E-35

Query Match          52.6%; Score 72; DB 2; Length 440;
Best Local Similarity 45.2%; Pred. No. 0.74;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

Qy      5 DKVK-----ASREAKKQVEKALEQLE 28
Db      270 DKVKEKQISDASRQGLRRDLDSAREAKKQVEKALEANSK 311

RESULT 6
US-08-795-475-6
; Sequence 6, Application US/08795475
; Patent No. 5965390
; GENERAL INFORMATION:
; APPLICANT: Bjorck, Lars
; APPLICANT: Sjobring, Ulf
; TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF
; NUMBER OF SEQUENCES: 14
```

```

;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/795,475
; FILING DATE: 11-FEB-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: McMaisters, David D.
; REGISTRATION NUMBER: 33,963
; REFERENCE/DOCKET NUMBER: 100084.402D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
;
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 443 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-08-795-475-6

Query Match          52.6%; Score 72; DB 1; Length 443;
Best Local Similarity 45.2%; Pred. No. 0.74;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

Qy      5 DKVK-----ASREAKKQVEKALEQLE 28
Db      272 DKVKEKQISDASRQRLRRDLDSAREAKKQVEKALEANSK 313

RESULT 7
US-08-325-278B-6
; Sequence 6, Application US/08325278B
; Patent No. 6822075
; GENERAL INFORMATION:
; APPLICANT: Bjorck, Lars
; TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Seed IP Law Group
; STREET: 701 Fifth Avenue Suite 6300
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/325,278B
; FILING DATE: 26-OCT-1994
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane B. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 100084.402
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
;
; INFORMATION FOR SEQ ID NO: 6:
```

SEQUENCE CHARACTERISTICS:  
LENGTH: 443 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-08-325-278B-6

Query Match 52.6%; Score 72; DB 2; Length 443;  
Best Local Similarity 45.2%; Pred. No. 0.74;  
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

QY 5 DKVK-----ASREAKKQVEKALEQLEDKV 28  
DB 272 DKVKEKQISDASRQRLRLDLDASREAKKQVEKALEANSKL 313

RESULT 8  
US-08-817-811-12  
Sequence 12, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Reif, Wendy A.  
APPLICANT: Good, Michael F.  
APPLICANT: Saul, Allan J.  
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME  
NUMBER OF SEQUENCES: 97  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/817,811  
FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Highlander, Steven L.  
REGISTRATION NUMBER: 37,642  
REFERENCE/DOCKET NUMBER: FIRC:005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-817-811-12

Query Match 51.8%; Score 71; DB 2; Length 28;  
Best Local Similarity 55.6%; Pred. No. 0.057;  
Matches 15; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY 1 KQADKVKASREAKKQVEKALEQLEDKV 27  
DB 2 KQLEDKVKQLEDKVKQLEDKVKQLEDK 28

RESULT 9

US-08-937-271-11  
Sequence 11, Application US/08937271  
Patent No. 6063386  
GENERAL INFORMATION:  
APPLICANT: Dale, James B.  
APPLICANT: Lederer, James W.  
TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN  
TITLE OF INVENTION: VACCINE  
NUMBER OF SEQUENCES: 40  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/937,271  
FILING DATE: 15-SEP-1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Roseman, Stephen J.  
REGISTRATION NUMBER: 43,058  
REFERENCE/DOCKET NUMBER: 481112.405C1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 236 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-937-271-11

Query Match 51.8%; Score 71; DB 2; Length 236;  
Best Local Similarity 75.0%; Pred. No. 0.51;  
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 9 ASREAKKQVEKALEQLEDKV 28  
DB 87 ASREAKKQVEKALEANSKL 106

RESULT 10  
US-08-914-479A-4  
Sequence 4, Application US/08914479A  
Patent No. 6419932  
GENERAL INFORMATION:  
APPLICANT: Dale, James B.  
TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER  
TITLE OF INVENTION: FOR GROUP A STREPTOCOCCAL VACCINE  
FILE REFERENCE: 481112.404C2  
CURRENT APPLICATION NUMBER: US/08/914,479A  
CURRENT FILING DATE: 1997-08-19  
PRIOR APPLICATION NUMBER: 08/409,270  
PRIOR FILING DATE: 1995-03-23  
PRIOR APPLICATION NUMBER: 07/945,860  
PRIOR FILING DATE: 1992-09-16  
NUMBER OF SEQ ID NOS: 19  
SOFTWARE: PatsSeq for Windows Version 4.0  
SEQ ID NO 4  
LENGTH: 254  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: An antigen of M5 and a carrier of the  
OTHER INFORMATION: COOH-terminal portion of M5



US-08-914-479A-4

Query Match 51.8%; Score 71; DB 2; Length 254;  
Best Local Similarity 75.0%; Pred. No. 0.55;  
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 9 ASREAKQVEKALEQLBDKV 28  
|||||:|:  
Db 105 ASREAKQVEKALEBEANSKL 124

RESULT 11

US-08-914-479A-6  
Sequence 6, Application US/08914479A  
Patent No. 6419932  
GENERAL INFORMATION:

APPLICANT: Dale, James B.  
TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER  
FILE REFERENCE: 481112.404C2

CURRENT FILING DATE: 1997-08-19

PRIOR APPLICATION NUMBER: 08/409,270

PRIOR FILING DATE: 1995-03-23

PRIOR APPLICATION NUMBER: 07/945,860

PRIOR FILING DATE: 1992-09-16

NUMBER OF SEQ ID NOS: 19

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 6

LENGTH: 284

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: An antigen of three fragments of M5 and a carrier

US-08-914-479A-6

Query Match 51.8%; Score 71; DB 2; Length 284;

Best Local Similarity 75.0%; Pred. No. 0.61;

Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 9 ASREAKQVEKALEQLBDKV 28

|||||:|:  
Db 135 ASREAKQVEKALEBEANSKL 154

RESULT 12  
US-08-937-271-10  
Sequence 10, Application US/08937271  
Patent No. 6063386  
GENERAL INFORMATION:

APPLICANT: Dale, James B.

TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN

NUMBER OF SEQUENCES: 40

CORRESPONDENCE ADDRESS:

ADDRESS: SEED AND BERRY

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,271

FILING DATE: 15-SEP-1997

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Rosenman, Stephen J.

REGISTRATION NUMBER: 43,058

REFERENCE/DOCKET NUMBER: 481112.405C1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:

LENGTH: 305 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-937-271-10

Query Match 51.8%; Score 71; DB 2; Length 305;

Best Local Similarity 75.0%; Pred. No. 0.66;

Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 9 ASREAKQVEKALEQLBDKV 28

|||||:|:  
Db 156 ASREAKQVEKALEBEANSKL 175

RESULT 13  
US-08-817-811-66  
Sequence 66, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:

APPLICANT: Cooper, Juan A.

APPLICANT: Reif, Wendy A.

APPLICANT: Good, Michael F.

APPLICANT: Saul, Allan J.

TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES

NUMBER OF SEQUENCES: 97

CORRESPONDENCE ADDRESS:

ADDRESS: Arnold, White &amp; Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/817,811

FILING DATE: 14-APR-1997

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: WO 96/11944

FILING DATE: 25-APR-1996

ATTORNEY/AGENT INFORMATION:

NAME: Highlander, Steven L.

REGISTRATION NUMBER: 37,642

REFERENCE/DOCKET NUMBER: FBRC:005

TELECOMMUNICATION INFORMATION:

TELEPHONE: 512/418-3000

TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 66:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

US-08-817-811-66

Query Match 50.0%; Score 68.5; DB 2; Length 28;

Best Local Similarity 55.2%; Pred. No. 0.11; Indels 7; Gaps 1;

Matches 16; Conservative 4; Mismatches 2;

Qy 1 KQAEKVKASREAKQVEKALBQLEDKVK 29  
|||  
Db 4 KQAEKVK-----KQLEDKVLELQDKVK 25

## RESULT 14

US-08-817-811-52  
; Sequence 52, Application US/08817811  
; Patent No. 6174528  
; GENERAL INFORMATION:  
; APPLICANT: Cooper, Juan A.  
; APPLICANT: Relif, Wendy A.  
; APPLICANT: Good, Michael F.  
; APPLICANT: Saul, Allan J.  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
; NUMBER OF SEQUENCES: 97  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSER: Arnold, White & Durkee  
; STREET: P.O. Box 4433  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: USA  
; ZIP: 77210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/817,811  
; FILING DATE: 14-APR-1997  
; CLASSIFICATION: 424  
; PRIOR APPLICATION NUMBER: WO 96/11944  
; APPLICATION NUMBER: 25-APR-1996  
; FILING DATE: 25-APR-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Highlander, Steven L.  
; REGISTRATION NUMBER: 37,642  
; REFERENCE/DOCKET NUMBER: FBRC:005  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 512/418-3000  
; TELEFAX: 512/474-7577  
; INFORMATION FOR SEQ ID NO: 52:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 29 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
US-08-817-811-52

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Best Local Similarity 48.3%; Pred. No. 0.17;  
Matches 14; Conservative 6; Mismatches 9; Indels 0; Gaps 0;

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RESULT 15  
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; Sequence 15, Application US/08817811  
; Patent No. 6174528  
; GENERAL INFORMATION:  
; APPLICANT: Cooper, Juan A.  
; APPLICANT: Relif, Wendy A.  
; APPLICANT: Good, Michael F.  
; APPLICANT: Saul, Allan J.  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
; NUMBER OF SEQUENCES: 97  
; CORRESPONDENCE ADDRESSES:

ADDRESSER: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/817,811  
; FILING DATE: 14-APR-1997  
; CLASSIFICATION: 424  
; PRIOR APPLICATION NUMBER: WO 96/11944  
; APPLICATION NUMBER: 25-APR-1996  
; FILING DATE: 25-APR-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Highlander, Steven L.  
; REGISTRATION NUMBER: 37,642  
; REFERENCE/DOCKET NUMBER: FBRC:005  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 512/418-3000  
; TELEFAX: 512/474-7577  
; INFORMATION FOR SEQ ID NO: 15:  
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; TYPE: amino acid  
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; TOPOLOGY: linear  
US-08-817-811-15

Query Match 47.8%; Score 65.5; DB 2; Length 28;  
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Db 5 KQAEKVDASREAK-----QLQDKVK 26

Search completed: March 28, 2006, 18:48:46  
Job time : 46 secs

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OM protein - protein search, using sw model

Run on: March 28, 2006, 19:13:55 ; Search time 164 Seconds  
(without alignments)  
35.668 Million cell updates/sec

Title: US-10-706-275A-1  
Perfect score: 64  
Sequence: 1 ASREARKOVERALE 14

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications\_MA\_Main:\*

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Pred. No. is the number of results predicted by chance to have a  
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and is derived by analysis of the total score distribution.

#### SUMMARIES

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166	40	62.5	284	4	US-10-147-508-118	Sequence 118	App	239	40	62.5	284	4	US-10-145-870-118	Sequence 118	App
167	40	62.5	284	4	US-10-147-512-118	Sequence 118	App	240	40	62.5	284	4	US-10-145-876-118	Sequence 118	App
168	40	62.5	284	4	US-10-175-735-118	Sequence 118	App	241	40	62.5	284	4	US-10-145-959-118	Sequence 118	App
169	40	62.5	284	4	US-10-121-040-118	Sequence 118	App	242	40	62.5	284	4	US-10-146-724-118	Sequence 118	App
170	40	62.5	284	4	US-10-121-056-118	Sequence 118	App	243	40	62.5	284	4	US-10-146-725-118	Sequence 118	App
171	40	62.5	284	4	US-10-121-061-118	Sequence 118	App	244	40	62.5	284	4	US-10-146-795-118	Sequence 118	App
172	40	62.5	284	4	US-10-123-235-118	Sequence 118	App	245	40	62.5	284	4	US-10-147-495-118	Sequence 118	App
173	40	62.5	284	4	US-10-124-818-118	Sequence 118	App	246	40	62.5	284	4	US-10-147-501-118	Sequence 118	App

247	40	62.5	284	4	US-10-147-504-118	Sequence 118, App	320	40	62.5	284	4	US-10-145-877-118	Sequence 118, App
248	40	62.5	284	4	US-10-147-506-118	Sequence 118, App	321	40	62.5	284	4	US-10-145-956-118	Sequence 118, App
249	40	62.5	284	4	US-10-147-509-118	Sequence 118, App	322	40	62.5	284	4	US-10-146-787-118	Sequence 118, App
250	40	62.5	284	4	US-10-147-510-118	Sequence 118, App	323	40	62.5	284	4	US-10-146-790-118	Sequence 118, App
251	40	62.5	284	4	US-10-147-511-118	Sequence 118, App	324	40	62.5	284	4	US-10-146-793-118	Sequence 118, App
252	40	62.5	284	4	US-10-147-529-118	Sequence 118, App	325	40	62.5	284	4	US-10-147-480-118	Sequence 118, App
253	40	62.5	284	4	US-10-152-397-118	Sequence 118, App	326	40	62.5	284	4	US-10-147-485-118	Sequence 118, App
254	40	62.5	284	4	US-10-153-586-118	Sequence 118, App	327	40	62.5	284	4	US-10-147-486-118	Sequence 118, App
255	40	62.5	284	4	US-10-158-786-118	Sequence 118, App	328	40	62.5	284	4	US-10-147-487-118	Sequence 118, App
256	40	62.5	284	4	US-10-137-870-118	Sequence 118, App	329	40	62.5	284	4	US-10-147-490-118	Sequence 118, App
257	40	62.5	284	4	US-10-140-018-118	Sequence 118, App	330	40	62.5	284	4	US-10-147-494-118	Sequence 118, App
258	40	62.5	284	4	US-10-140-021-118	Sequence 118, App	331	40	62.5	284	4	US-10-147-498-118	Sequence 118, App
259	40	62.5	284	4	US-10-140-471-118	Sequence 118, App	332	40	62.5	284	4	US-10-147-514-118	Sequence 118, App
260	40	62.5	284	4	US-10-140-922-118	Sequence 118, App	333	40	62.5	284	4	US-10-147-524-118	Sequence 118, App
261	40	62.5	284	4	US-10-145-631-118	Sequence 118, App	334	40	62.5	284	4	US-10-152-379-118	Sequence 118, App
262	40	62.5	284	4	US-10-145-633-118	Sequence 118, App	335	40	62.5	284	4	US-10-152-394-118	Sequence 118, App
263	40	62.5	284	4	US-10-158-783-118	Sequence 118, App	336	40	62.5	284	4	US-10-152-406-118	Sequence 118, App
264	40	62.5	284	4	US-10-140-274-118	Sequence 118, App	337	40	62.5	284	4	US-10-156-847-118	Sequence 118, App
265	40	62.5	284	4	US-10-140-019-118	Sequence 118, App	338	40	62.5	284	4	US-10-157-778-118	Sequence 118, App
266	40	62.5	284	4	US-10-140-022-118	Sequence 118, App	339	40	62.5	284	4	US-10-157-799-118	Sequence 118, App
267	40	62.5	284	4	US-10-140-861-118	Sequence 118, App	340	40	62.5	284	4	US-10-160-504-118	Sequence 118, App
268	40	62.5	284	4	US-10-140-862-118	Sequence 118, App	341	40	62.5	284	4	US-10-165-634-118	Sequence 118, App
269	40	62.5	284	4	US-10-141-697-118	Sequence 118, App	342	40	62.5	284	4	US-10-147-520-118	Sequence 118, App
270	40	62.5	284	4	US-10-141-700-118	Sequence 118, App	343	40	62.5	284	4	US-10-157-779-118	Sequence 118, App
271	40	62.5	284	4	US-10-141-705-118	Sequence 118, App	344	40	62.5	284	4	US-10-176-989-118	Sequence 118, App
272	40	62.5	284	4	US-10-141-753-118	Sequence 118, App	345	40	62.5	284	4	US-10-147-491-118	Sequence 118, App
273	40	62.5	284	4	US-10-141-758-118	Sequence 118, App	346	40	62.5	284	4	US-10-152-378-118	Sequence 118, App
274	40	62.5	284	4	US-10-142-418-118	Sequence 118, App	347	40	62.5	284	4	US-10-152-382-118	Sequence 118, App
275	40	62.5	284	4	US-10-142-420-118	Sequence 118, App	348	40	62.5	284	4	US-10-152-383-118	Sequence 118, App
276	40	62.5	284	4	US-10-142-422-118	Sequence 118, App	349	40	62.5	284	4	US-10-152-384-118	Sequence 118, App
277	40	62.5	284	4	US-10-142-427-118	Sequence 118, App	350	40	62.5	284	4	US-10-152-387-118	Sequence 118, App
278	40	62.5	284	4	US-10-142-427-118	Sequence 118, App	351	40	62.5	284	4	US-10-152-389-118	Sequence 118, App
279	40	62.5	284	4	US-10-142-760-118	Sequence 118, App	352	40	62.5	284	4	US-10-152-390-118	Sequence 118, App
280	40	62.5	284	4	US-10-145-821-118	Sequence 118, App	353	40	62.5	284	4	US-10-152-392-118	Sequence 118, App
281	40	62.5	284	4	US-10-152-531-118	Sequence 118, App	354	40	62.5	284	4	US-10-153-756-118	Sequence 118, App
282	40	62.5	284	4	US-10-127-840A-118	Sequence 118, App	355	40	62.5	284	4	US-10-157-779-118	Sequence 118, App
283	40	62.5	284	4	US-10-142-424-118	Sequence 118, App	356	40	62.5	284	4	US-10-157-778-118	Sequence 118, App
284	40	62.5	284	4	US-10-142-761-118	Sequence 118, App	357	40	62.5	284	4	US-10-157-797-118	Sequence 118, App
285	40	62.5	284	4	US-10-142-763-118	Sequence 118, App	358	40	62.5	284	4	US-10-158-491-118	Sequence 118, App
286	40	62.5	284	4	US-10-142-765-118	Sequence 118, App	359	40	62.5	284	4	US-10-142-762-118	Sequence 118, App
287	40	62.5	284	4	US-10-142-887-118	Sequence 118, App	360	40	62.5	284	4	US-10-142-764-118	Sequence 118, App
288	40	62.5	284	4	US-10-142-888-118	Sequence 118, App	361	40	62.5	284	4	US-10-142-766-118	Sequence 118, App
289	40	62.5	284	4	US-10-143-034-118	Sequence 118, App	362	40	62.5	284	4	US-10-142-768-118	Sequence 118, App
290	40	62.5	284	4	US-10-143-116-118	Sequence 118, App	363	40	62.5	284	4	US-10-145-625-118	Sequence 118, App
291	40	62.5	284	4	US-10-144-957-118	Sequence 118, App	364	40	62.5	284	4	US-10-145-627-118	Sequence 118, App
292	40	62.5	284	4	US-10-144-992-118	Sequence 118, App	365	40	62.5	284	4	US-10-145-960-118	Sequence 118, App
293	40	62.5	284	4	US-10-145-015-118	Sequence 118, App	366	40	62.5	284	4	US-10-145-962-118	Sequence 118, App
294	40	62.5	284	4	US-10-145-090-118	Sequence 118, App	367	40	62.5	284	4	US-10-146-789-118	Sequence 118, App
295	40	62.5	284	4	US-10-145-091-118	Sequence 118, App	368	40	62.5	284	4	US-10-147-483-118	Sequence 118, App
296	40	62.5	284	4	US-10-145-629-118	Sequence 118, App	369	40	62.5	284	4	US-10-147-496-118	Sequence 118, App
297	40	62.5	284	4	US-10-145-630-118	Sequence 118, App	370	40	62.5	284	4	US-10-147-505-118	Sequence 118, App
298	40	62.5	284	4	US-10-145-747-118	Sequence 118, App	371	40	62.5	284	4	US-10-147-516-118	Sequence 118, App
299	40	62.5	284	4	US-10-145-752-118	Sequence 118, App	372	40	62.5	284	4	US-10-152-398-118	Sequence 118, App
300	40	62.5	284	4	US-10-145-754-118	Sequence 118, App	373	40	62.5	284	4	US-10-139-980-118	Sequence 118, App
301	40	62.5	284	4	US-10-145-755-118	Sequence 118, App	374	40	62.5	284	4	US-10-145-980-118	Sequence 118, App
302	40	62.5	284	4	US-10-145-818-118	Sequence 118, App	375	40	62.5	284	4	US-10-152-373-118	Sequence 118, App
303	40	62.5	284	4	US-10-145-820-118	Sequence 118, App	376	40	62.5	284	4	US-10-152-375-118	Sequence 118, App
304	40	62.5	284	4	US-10-145-872-118	Sequence 118, App	377	40	62.5	284	4	US-10-121-055-118	Sequence 118, App
305	40	62.5	284	4	US-10-145-873-118	Sequence 118, App	378	40	62.5	284	4	US-10-121-056-118	Sequence 118, App
306	40	62.5	284	4	US-10-147-481-118	Sequence 118, App	379	40	62.5	284	4	US-10-121-059-118	Sequence 118, App
307	40	62.5	284	4	US-10-147-482-118	Sequence 118, App	380	40	62.5	284	4	US-10-121-060-118	Sequence 118, App
308	40	62.5	284	4	US-10-147-503-118	Sequence 118, App	381	40	62.5	284	4	US-10-121-061-118	Sequence 118, App
309	40	62.5	284	4	US-10-147-522-118	Sequence 118, App	382	40	62.5	284	4	US-10-123-109-118	Sequence 118, App
310	40	62.5	284	4	US-10-152-401-118	Sequence 118, App	383	40	62.5	284	4	US-10-123-154-118	Sequence 118, App
311	40	62.5	284	4	US-10-157-783-118	Sequence 118, App	384	40	62.5	284	4	US-10-123-157-118	Sequence 118, App
312	40	62.5	284	4	US-10-158-792-118	Sequence 118, App	385	40	62.5	284	4	US-10-123-906-118	Sequence 118, App
313	40	62.5	284	4	US-10-158-462-118	Sequence 118, App	386	40	62.5	284	4	US-10-124-814-118	Sequence 118, App
314	40	62.5	284	4	US-10-143-035-118	Sequence 118, App	387	40	62.5	284	4	US-10-124-816-118	Sequence 118, App
315	40	62.5	284	4	US-10-145-751-118	Sequence 118, App	388	40	62.5	284	4	US-10-124-820-118	Sequence 118, App
316	40	62.5	284	4	US-10-145-832-118	Sequence 118, App	389	40	62.5	284	4	US-10-125-927-118	Sequence 118, App
317	40	62.5	284	4	US-10-145-834-118	Sequence 118, App	390	40	62.5	284	4	US-10-125-927-118	Sequence 118, App
318	40	62.5	284	4	US-10-145-827-118	Sequence 118, App	391	40	62.5	284	4	US-10-142-889-118	Sequence 118, App
319	40	62.5	284	4	US-10-145-859-118	Sequence 118, App	392	40	62.5	284	4	US-10-145-874-118	Sequence 118, App
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393	40	62.5	284	4	US-10-152-371-118	Sequence 118, App	466	40	62.5	284	4	US-10-147-489-118	Sequence 118, App
394	40	62.5	284	4	US-10-152-374-118	Sequence 118, App	467	40	62.5	284	4	US-10-147-507-118	Sequence 118, App
395	40	62.5	284	4	US-10-152-375-118	Sequence 118, App	468	40	62.5	284	4	US-10-147-535-118	Sequence 118, App
396	40	62.5	284	4	US-10-152-377-118	Sequence 118, App	469	40	62.5	284	4	US-10-147-537-118	Sequence 118, App
397	40	62.5	284	4	US-10-152-378-118	Sequence 118, App	470	40	62.5	284	4	US-10-152-376-118	Sequence 118, App
398	40	62.5	284	4	US-10-152-391-118	Sequence 118, App	471	40	62.5	284	4	US-10-152-381-118	Sequence 118, App
399	40	62.5	284	4	US-10-152-399-118	Sequence 118, App	472	40	62.5	284	4	US-10-152-400-118	Sequence 118, App
400	40	62.5	284	4	US-10-156-848-118	Sequence 118, App	473	40	62.5	284	4	US-10-153-585-118	Sequence 118, App
401	40	62.5	284	4	US-10-157-785-118	Sequence 118, App	474	40	62.5	284	4	US-10-157-800-118	Sequence 118, App
402	40	62.5	284	4	US-10-157-794-118	Sequence 118, App	475	40	62.5	284	4	US-10-157-800-118	Sequence 118, App
403	40	62.5	284	4	US-10-157-796-118	Sequence 118, App	476	40	62.5	284	4	US-10-157-801-118	Sequence 118, App
404	40	62.5	284	4	US-10-150-500-118	Sequence 118, App	477	40	62.5	284	4	US-10-157-802-118	Sequence 118, App
405	40	62.5	284	4	US-10-121-046-118	Sequence 118, App	478	40	62.5	284	4	US-10-158-784-118	Sequence 118, App
406	40	62.5	284	4	US-10-123-156-118	Sequence 118, App	479	40	62.5	284	4	US-10-158-789-118	Sequence 118, App
407	40	62.5	284	4	US-10-123-214-118	Sequence 118, App	480	40	62.5	284	4	US-10-192-011-118	Sequence 118, App
408	40	62.5	284	4	US-10-125-805-118	Sequence 118, App	481	40	62.5	284	4	US-10-139-963-118	Sequence 118, App
409	40	62.5	284	4	US-10-124-821-118	Sequence 118, App	482	40	62.5	284	4	US-10-140-020-118	Sequence 118, App
410	40	62.5	284	4	US-10-152-385-118	Sequence 118, App	483	40	62.5	284	4	US-10-140-023-118	Sequence 118, App
411	40	62.5	284	4	US-10-152-393-118	Sequence 118, App	484	40	62.5	284	4	US-10-140-809-118	Sequence 118, App
412	40	62.5	284	4	US-10-152-396-118	Sequence 118, App	485	40	62.5	284	4	US-10-140-865-118	Sequence 118, App
413	40	62.5	284	4	US-10-153-552-118	Sequence 118, App	486	40	62.5	284	4	US-10-141-701-118	Sequence 118, App
414	40	62.5	284	4	US-10-153-840-118	Sequence 118, App	487	40	62.5	284	4	US-10-141-754-118	Sequence 118, App
415	40	62.5	284	4	US-10-156-841-118	Sequence 118, App	488	40	62.5	284	4	US-10-141-760-118	Sequence 118, App
416	40	62.5	284	4	US-10-156-842-118	Sequence 118, App	489	40	62.5	284	4	US-10-142-425-118	Sequence 118, App
417	40	62.5	284	4	US-10-156-844-118	Sequence 118, App	490	40	62.5	284	4	US-10-142-430-118	Sequence 118, App
418	40	62.5	284	4	US-10-156-845-118	Sequence 118, App	491	40	62.5	284	4	US-10-143-113-118	Sequence 118, App
419	40	62.5	284	4	US-10-156-846-118	Sequence 118, App	492	40	62.5	284	4	US-10-146-730-118	Sequence 118, App
420	40	62.5	284	4	US-10-121-048-118	Sequence 118, App	493	40	62.5	284	4	US-10-146-792-118	Sequence 118, App
421	40	62.5	284	4	US-10-121-052-118	Sequence 118, App	494	40	62.5	284	4	US-10-158-791-118	Sequence 118, App
422	40	62.5	284	4	US-10-121-053-118	Sequence 118, App	495	40	62.5	284	4	US-10-220-381-15	Sequence 15, Appl
423	40	62.5	284	4	US-10-121-054-118	Sequence 118, App	496	40	62.5	284	4	US-10-156-843-118	Sequence 118, App
424	40	62.5	284	4	US-10-121-063-118	Sequence 118, App	497	40	62.5	284	4	US-10-157-786-118	Sequence 118, App
425	40	62.5	284	4	US-10-123-212-118	Sequence 118, App	498	40	62.5	284	4	US-10-157-801-118	Sequence 118, App
426	40	62.5	284	4	US-10-123-213-118	Sequence 118, App	499	40	62.5	284	4	US-10-147-528-118	Sequence 118, App
427	40	62.5	284	4	US-10-123-291-118	Sequence 118, App	500	40	62.5	284	4	US-10-291-172-267	Sequence 267, App
428	40	62.5	284	4	US-10-123-322-118	Sequence 118, App	501	40	62.5	284	4	US-10-264-237-267	Sequence 267, App
429	40	62.5	284	4	US-10-123-771-118	Sequence 118, App	502	40	62.5	284	4	US-10-128-692A-118	Sequence 118, App
430	40	62.5	284	4	US-10-123-911-118	Sequence 118, App	503	40	62.5	284	4	US-10-140-927-118	Sequence 118, App
431	40	62.5	284	4	US-10-124-823-118	Sequence 118, App	504	40	62.5	284	4	US-10-147-493-118	Sequence 118, App
432	40	62.5	284	4	US-10-125-931-118	Sequence 118, App	505	40	62.5	284	4	US-10-145-127-118	Sequence 118, App
433	40	62.5	284	4	US-10-125-932-118	Sequence 118, App	506	40	62.5	284	4	US-10-160-503-118	Sequence 118, App
434	40	62.5	284	4	US-10-127-852A-118	Sequence 118, App	507	40	62.5	284	4	US-10-221-278-267	Sequence 267, App
435	40	62.5	284	4	US-10-127-900A-118	Sequence 118, App	508	40	62.5	284	4	US-10-143-118-118	Sequence 118, App
436	40	62.5	284	4	US-10-128-685A-118	Sequence 118, App	509	40	62.5	284	4	US-10-144-993-118	Sequence 118, App
437	40	62.5	284	4	US-10-131-820A-118	Sequence 118, App	510	40	62.5	284	4	US-10-158-787-118	Sequence 118, App
438	40	62.5	284	4	US-10-142-886-118	Sequence 118, App	511	40	62.5	284	4	US-10-142-826-118	Sequence 118, App
439	40	62.5	284	4	US-10-146-728-118	Sequence 118, App	512	40	62.5	284	4	US-10-140-024-118	Sequence 118, App
440	40	62.5	284	4	US-10-146-786-118	Sequence 118, App	513	40	62.5	284	4	US-10-147-536-118	Sequence 118, App
441	40	62.5	284	4	US-10-147-459-118	Sequence 118, App	514	40	62.5	284	4	US-10-152-572-118	Sequence 118, App
442	40	62.5	284	4	US-10-157-798-118	Sequence 118, App	515	40	62.5	284	4	US-10-145-626-118	Sequence 118, App
443	40	62.5	284	4	US-10-123-913-118	Sequence 118, App	516	40	62.5	284	4	US-10-145-626-118	Sequence 118, App
444	40	62.5	284	4	US-10-140-473-118	Sequence 118, App	517	40	62.5	284	4	US-10-145-819-118	Sequence 118, App
445	40	62.5	284	4	US-10-140-806-118	Sequence 118, App	518	40	62.5	284	4	US-10-145-825-118	Sequence 118, App
446	40	62.5	284	4	US-10-140-810-118	Sequence 118, App	519	40	62.5	284	4	US-10-147-513-118	Sequence 118, App
447	40	62.5	284	4	US-10-140-863-118	Sequence 118, App	520	40	62.5	284	4	US-10-147-518-118	Sequence 118, App
448	40	62.5	284	4	US-10-141-639-118	Sequence 118, App	521	40	62.5	284	4	US-10-145-961-118	Sequence 118, App
449	40	62.5	284	4	US-10-141-703-118	Sequence 118, App	522	40	62.5	284	4	US-10-147-488-118	Sequence 118, App
450	40	62.5	284	4	US-10-141-706-118	Sequence 118, App	523	40	62.5	284	4	US-10-147-531-118	Sequence 118, App
451	40	62.5	284	4	US-10-141-757-118	Sequence 118, App	524	40	62.5	284	4	US-10-931-886-118	Sequence 118, App
452	40	62.5	284	4	US-10-141-762-118	Sequence 118, App	525	40	62.5	284	4	US-10-158-788-118	Sequence 118, App
453	40	62.5	284	4	US-10-142-428-118	Sequence 118, App	526	40	62.5	284	4	US-10-955-952-118	Sequence 118, App
454	40	62.5	284	4	US-10-142-429-118	Sequence 118, App	527	40	62.5	306	3	US-09-925-301-1668	Sequence 1668, App
455	40	62.5	284	4	US-10-142-884-118	Sequence 118, App	528	40	62.5	534	5	US-10-487-475A-39	Sequence 39, Appl
456	40	62.5	284	4	US-10-143-027-118	Sequence 118, App	529	40	62.5	790	4	US-10-425-115-250819	Sequence 250819, App
457	40	62.5	284	4	US-10-143-115-118	Sequence 118, App	530	40	62.5	855	4	US-10-425-115-206528	Sequence 206528, App
458	40	62.5	284	4	US-10-144-956-118	Sequence 118, App	531	39	60.9	96	5	US-10-617-320-3416	Sequence 3416, App
459	40	62.5	284	4	US-10-144-958-118	Sequence 118, App	532	39	60.9	103	5	US-10-472-928-4388	Sequence 4388, App
460	40	62.5	284	4	US-10-145-632-118	Sequence 118, App	533	39	60.9	117	4	US-10-425-115-220588	Sequence 220588, App
461	40	62.5	284	4	US-10-145-749-118	Sequence 118, App	534	39	60.9	146	3	US-09-925-301-1518	Sequence 1518, App
462	40	62.5	284	4	US-10-145-753-118	Sequence 118, App	535	39	60.9	148	5	US-10-472-928-2270	Sequence 2270, App
463	40	62.5	284	4	US-10-145-871-118	Sequence 118, App	536	39	60.9	189	4	US-10-425-115-220590	Sequence 220590, App
464	40	62.5	284	4	US-10-145-878-118	Sequence 118, App	537	39	60.9	230	4	US-10-282-122A-71563	Sequence 71563, Appl
465	40	62.5	284	4	US-10-146-794-118	Sequence 118, App	538	39	60.9	288	4	US-10-468-091-1	Sequence 1, Appl1

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542	39	60.9	260	4	US-10-468-091-2	Sequence 2	615	37	57.8	304	4	US-10-333-002-26	Sequence 26, Appl
543	39	60.9	414	4	US-10-108-605-87	Sequence 87, Appl	616	37	57.8	304	4	US-10-474-776-243	Sequence 243, Appl
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545	39	60.9	422	6	US-11-097-143-3630	Sequence 3630, Ap	618	37	57.8	304	5	US-10-968-317-36	Sequence 36, Appl
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573	38	59.4	381	5	US-10-215-982-18	Sequence 18, Appl	646	36.5	57.0	121	4	US-10-335-977-9716	Sequence 9716, Ap
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575	38	59.4	381	5	US-10-733-923-7651	Sequence 7651, Ap	648	36.5	57.0	485	4	US-10-335-977-7113	Sequence 7113, Ap
576	38	59.4	381	5	US-10-733-923-8012	Sequence 8012, Ap	649	36.5	57.0	806	3	US-09-815-242-11622	Sequence 11622, A
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611	37	57.8	277	4	US-10-369-493-12416	Sequence 12416, A	684	36	56.2	409	4	US-10-412-6998B-684	Sequence 684, App



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692	36	56.2	586	4	US-10-408-765A-2372	Sequence 2372, App	765	35	54.7	299	4	US-10-369-493-2400	Sequence 2400, App
693	36	56.2	613	6	US-11-097-143-20412	Sequence 20412, A	766	35	54.7	260	5	US-10-450-763-47602	Sequence 47602, A
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697	36	56.2	635	3	US-09-925-299-896	Sequence 896, App	770	35	54.7	280	4	US-10-282-122A-77733	Sequence 77733, A
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713	36	56.2	908	4	US-10-032-585-5642	Sequence 7642, Ap	786	35	54.7	351	3	US-09-732-622A-361	Sequence 361, App
714	36	56.2	1125	5	US-10-684-129-7	Sequence 7, App1	787	35	54.7	351	4	US-10-309-584-361	Sequence 361, App
715	36	56.2	1231	4	US-10-359-493-3503	Sequence 3503, Ap	788	35	54.7	351	5	US-10-783-557-362	Sequence 362, App
716	36	56.2	1289	4	US-10-437-963-157119	Sequence 157119, A	789	35	54.7	355	4	US-10-437-963-160068	Sequence 160068, A
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729	35	54.7	35	4	US-10-105-232-355	Sequence 355, App	802	35	54.7	406	4	US-10-437-963-124075	Sequence 124075, A
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734	35	54.7	43	5	US-10-860-050-354	Sequence 354, App	807	35	54.7	425	4	US-10-467-042-8	Sequence 8, App1
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578 34 53.1 230 5 US-10-994-726-687 Sequence 687, App  
579 34 53.1 234 5 US-10-238-075-678 Sequence 678, App  
580 34 53.1 237 4 US-10-767-701-36521 Sequence 36521, A  
581 34 53.1 245 4 US-10-282-122A-70613 Sequence 70613, A  
582 34 53.1 247 4 US-10-114-270-68 Sequence 68, Appl  
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584 34 53.1 249 5 US-10-617-320-4031 Sequence 4031, Ap  
585 34 53.1 250 4 US-10-424-599-246825 Sequence 246825,  
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591 34 53.1 254 6 US-11-032-644-9 Sequence 9, Appl1  
592 34 53.1 266 4 US-10-051-986-7 Sequence 7, Appl1  
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594 34 53.1 273 4 US-10-424-599-225203 Sequence 225203,  
595 34 53.1 274 3 US-09-738-626-6076 Sequence 6076, Ap  
596 34 53.1 275 4 US-09-815-242-13441 Sequence 13441, A  
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## ALIGNMENTS

RESULT 1  
US-10-706-275-1  
; Sequence 1, Application US/10706275  
; Publication No. US2005002956A1  
; GENERAL INFORMATION:  
; APPLICANT: ID Biomedical Corporation of Quebec  
; APPLICANT: The Council of the Queensland Institute of Medical Research  
; APPLICANT: Lowell, George H.  
; APPLICANT: Burt, David S.  
; APPLICANT: White, Gregory L.  
; APPLICANT: Good, Michael F.  
; APPLICANT: Batzloff, Michael R.  
; APPLICANT: Leanderson, Tomas B.  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: 021989-000710US  
; CURRENT APPLICATION NUMBER: US/10/706,275  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: US 60/426,409  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: AU 2002302132  
; PRIOR FILING DATE: 2002-11-15  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: antigenic peptide sequence derivative of S. pyogenes  
US-10-706-275-1

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Best Local Similarity 100.0%; Pred. No. 0.0026;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 ASREAKKQVEKALE 14  
Db 1 ASREAKKQVEKALE 14

RESULT 2  
US-10-044-034-22  
; Sequence 22, Application US/10044034  
; Publication No. US20020169264A1

; GENERAL INFORMATION:  
; APPLICANT: JACKSON, DAVID C.  
; APPLICANT: O'BRIEN-SIMPSON, NEIL M.  
; APPLICANT: BROWN, LORENA E.  
; APPLICANT: BDE, NICOLA J.  
; APPLICANT: BRANDT, EVELYN R.  
; APPLICANT: GOOD, MICHAEL F.  
; TITLE OF INVENTION: POLYMERS INCORPORATING PEPTIDES  
; FILE REFERENCE: FBRC:006  
; CURRENT APPLICATION NUMBER: US/10/044,034  
; CURRENT FILING DATE: 2002-01-11  
; PRIOR APPLICATION NUMBER: P05071  
; PRIOR FILING DATE: 1997-02-11  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 22  
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; TYPE: PRT  
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; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: Peptides  
US-10-044-034-22

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Best Local Similarity 100.0%; Pred. No. 0.0037;  
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Db 7 ASREAKKQVEKALE 20

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; Sequence 5, Application US/10706275  
; Publication No. US2005002956A1  
; GENERAL INFORMATION:  
; APPLICANT: ID Biomedical Corporation of Quebec  
; APPLICANT: The Council of the Queensland Institute of Medical Research  
; APPLICANT: Lowell, George H.  
; APPLICANT: Burt, David S.  
; APPLICANT: White, Gregory L.  
; APPLICANT: Good, Michael F.  
; APPLICANT: Batzloff, Michael R.  
; APPLICANT: Leanderson, Tomas B.  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: 021989-000710US  
; CURRENT APPLICATION NUMBER: US/10/706,275  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: US 60/426,409  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: AU 2002302132  
; PRIOR FILING DATE: 2002-11-15  
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US-10-706-275-5

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Best Local Similarity 100.0%; Pred. No. 0.0037;  
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Db 7 ASREAKKQVEKALE 20

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; Sequence 2, Application US/10706275  
; Publication No. US2005002956A1  
; GENERAL INFORMATION:  
; APPLICANT: ID Biomedical Corporation of Quebec  
; APPLICANT: The Council of the Queensland Institute of Medical Research  
; APPLICANT: Lowell, George H.  
; APPLICANT: Burt, David S.  
; APPLICANT: White, Gregory L.  
; APPLICANT: Batzloff, Michael R.  
; APPLICANT: Leanderson, Tomas B.  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: 021989-000710US  
; CURRENT APPLICATION NUMBER: US/10/706,275  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: US 60/426,409  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: AU 2002302132  
; PRIOR FILING DATE: 2002-11-15  
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; OTHER INFORMATION: antigenic peptide derivative of S. pyogenes with flanking sequenc  
US-10-706-275-2

Query Match 100.0%; Score 64; DB 5; Length 29;  
Best Local Similarity 100.0%; Pred. No. 0.0055;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKKQVEKALE 14  
|||  
Db 9 ASREAKKQVEKALE 22

RESULT 5  
US-10-706-275-15  
; Sequence 15, Application US/10706275  
; Publication No. US2005002956A1  
; GENERAL INFORMATION:  
; APPLICANT: ID Biomedical Corporation of Quebec  
; APPLICANT: The Council of the Queensland Institute of Medical Research  
; APPLICANT: Lowell, George H.  
; APPLICANT: Burt, David S.  
; APPLICANT: White, Gregory L.  
; APPLICANT: Good, Michael P.  
; APPLICANT: Batzloff, Michael R.  
; APPLICANT: Leanderson, Tomas B.  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: 021989-000710US  
; CURRENT APPLICATION NUMBER: US/10/706,275  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: US 60/426,409  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: AU 2002302132  
; PRIOR FILING DATE: 2002-11-15  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 15  
; LENGTH: 29  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-15

Query Match 100.0%; Score 64; DB 5; Length 29;

Best Local Similarity 100.0%; Pred. No. 0.0055;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKKQVEKALE 14  
|||  
Db 9 ASREAKKQVEKALE 22

RESULT 6  
US-10-141-627-4  
; Sequence 4, Application US/10141627  
; Publication No. US20020176863A1  
; GENERAL INFORMATION:  
; APPLICANT: Dale, James B.  
; TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER  
; TITLE OF INVENTION: FOR GROUP A STREPTOCOCCAL VACCINE  
; FILE REFERENCE: 481112.404C3  
; CURRENT APPLICATION NUMBER: US/10/141,627  
; CURRENT FILING DATE: 2002-05-07  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 254  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: An antigen of M5 and a carrier of the  
; OTHER INFORMATION: COOH-terminal portion of M5  
US-10-141-627-4

Query Match 100.0%; Score 64; DB 4; Length 254;  
Best Local Similarity 100.0%; Pred. No. 0.052;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKKQVEKALE 14  
|||  
Db 105 ASREAKKQVEKALE 118

RESULT 7  
US-10-141-627-6  
; Sequence 6, Application US/10141627  
; Publication No. US20020176863A1  
; GENERAL INFORMATION:  
; APPLICANT: Dale, James B.  
; TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER  
; TITLE OF INVENTION: FOR GROUP A STREPTOCOCCAL VACCINE  
; FILE REFERENCE: 481112.404C3  
; CURRENT APPLICATION NUMBER: US/10/141,627  
; CURRENT FILING DATE: 2002-05-07  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 284  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: An antigen of three fragments of M5 and a carrier  
; OTHER INFORMATION: of the COOH-terminal portion of M5  
US-10-141-627-6

Query Match 100.0%; Score 64; DB 4; Length 284;  
Best Local Similarity 100.0%; Pred. No. 0.058;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKKQVEKALE 14  
|||  
Db 135 ASREAKKQVEKALE 148

RESULT 8  
US-08-325-278-6  
; Sequence 6, Application US/08325278

Publication No. US20030027283A1  
GENERAL INFORMATION:  
APPLICANT: Bjvick, Lars  
APPLICANT: Sjvdring, Ulf  
TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/325,278  
FILING DATE: 26-OCT-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: McMasters, David D.  
REGISTRATION NUMBER: 33,963  
REFERENCE/DOCKET NUMBER: 450023.401  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 443 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-325-278-6

Query Match 100.0%; Score 64; DB 2; Length 443;  
Best Local Similarity 100.0%; Pred. No. 0.093;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14  
DB 294 ASREAKKQVEKALE 307

RESULT 9  
US-10-474-792-672  
Sequence 672, Application US/10474792  
GENERAL INFORMATION:  
APPLICANT: Olmsted, Stephen  
APPLICANT: Zagursky, Robert  
APPLICANT: Nicholas, Elliot  
APPLICANT: Winter, Louis  
TITLE OF INVENTION: SURFACE PROTEINS OF STREPTOCOCCUS PYOGENES  
FILE REFERENCE: AM 100399  
CURRENT APPLICATION NUMBER: US/10/474,792  
CURRENT FILING DATE: 2003-10-14  
NUMBER OF SEQ ID NOS: 674  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 672  
LENGTH: 553  
TYPE: PRT  
ORGANISM: Streptococcus pyogenes  
US-10-474-792-672

Query Match 100.0%; Score 64; DB 5; Length 553;  
Best Local Similarity 100.0%; Pred. No. 0.12;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14  
DB 14 ASREAKKQVEKALE 14

DB 404 ASREAKKQVEKALE 417

RESULT 10  
US-10-732-923-3295  
Sequence 3295, Application US/10732923  
Publication No. US20050108791A1  
GENERAL INFORMATION:  
APPLICANT: Edgerton, Michael D  
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
FILE REFERENCE: 38-15(52796)C  
CURRENT APPLICATION NUMBER: US/10/732,923  
CURRENT FILING DATE: 2003-12-10  
PRIOR APPLICATION NUMBER: 10/310,154  
PRIOR FILING DATE: 2002-12-04  
NUMBER OF SEQ ID NOS: 24149  
SEQ ID NO 3295  
LENGTH: 558  
TYPE: PRT  
ORGANISM: Streptococcus pyogenes  
US-10-732-923-3295

Query Match 100.0%; Score 64; DB 5; Length 558;  
Best Local Similarity 100.0%; Pred. No. 0.12;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14  
DB 409 ASREAKKQVEKALE 422

RESULT 11  
US-10-706-275-12  
Sequence 12, Application US/10706275  
Publication No. US2005002956A1  
GENERAL INFORMATION:  
APPLICANT: ID Biomedical Corporation of Quebec  
APPLICANT: The Council of the Queensland Institute of Medical Research  
APPLICANT: Lowell, George H.  
APPLICANT: Burt, David S.  
APPLICANT: White, Gregory L.  
APPLICANT: Good, Michael F.  
APPLICANT: Batzloff, Michael R.  
APPLICANT: Leanderson, Tomas B.  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: 021989-000710US  
CURRENT APPLICATION NUMBER: US/10/706,275  
CURRENT FILING DATE: 2003-11-13  
PRIOR APPLICATION NUMBER: US 60/426,409  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: AU 2002302132  
PRIOR FILING DATE: 2002-11-15  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 12  
LENGTH: 28  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-12

Query Match 89.1%; Score 57; DB 5; Length 28;  
Best Local Similarity 85.7%; Pred. No. 0.065;  
Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14  
DB 9 ASREAKKQVEKAVK 22

RESULT 12  
US-10-706-275-13

```
Sequence 13, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-13
```

```
Query Match      87.5%; Score 56; DB 5; Length 28;
Best Local Similarity 92.3%; Pred. No. 0.092;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      2 SREAKQVEKALE 14
        |||||
Db      9 SREAKQVEKALK 21
```

```
RESULT 13
US-10-706-275-14
; Sequence 14, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-14
```

```
Query Match      87.5%; Score 56; DB 5; Length 28;
Best Local Similarity 100.0%; Pred. No. 0.092;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      3 REAKQVEKALE 14
        |||||
Db      9 REAKQVEKALE 20
```

```
RESULT 14
US-10-706-275-11
; Sequence 11, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-11
```

```
Query Match      81.2%; Score 52; DB 5; Length 28;
Best Local Similarity 78.6%; Pred. No. 0.39;
Matches 11; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      1 ASREAKQVEKALE 14
        |||||
Db      10 ASREAKQVEKVK 23
```

```
RESULT 15
US-10-706-275-10
; Sequence 10, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
```

OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-10

Query Match 74.2%; Score 47.5; DB 5; Length 28;  
Best Local Similarity 76.5%; Pred. No. 1.9;  
Matches 13; Conservative 0; Mismatches 1; Indels 3; Gaps 1;

OY 1 ASREAKQVE---KALE 14  
Db 11 ASREAKQVEDKVKQLB 27

## RESULT 16

US-10-369-493-5342  
Sequence 5342, Application US/10369493  
Publication No. US2003023675A1  
GENERAL INFORMATION:  
APPLICANT: Cao, Yongwei  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Goldman, Barry S.  
APPLICANT: Chen, Xianfeng  
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
FILE REFERENCE: 38-10(52052)B  
CURRENT APPLICATION NUMBER: US/10/369,493  
CURRENT FILING DATE: 2003-02-28  
PRIOR APPLICATION NUMBER: US 60/360,039  
PRIOR FILING DATE: 2002-02-21  
NUMBER OF SEQ ID NOS: 47374  
SEQ ID NO 5342  
LENGTH: 546  
TYPE: PRT  
ORGANISM: Caenorhabditis elegans  
US-10-369-493-5342

Query Match 70.3%; Score 45; DB 4; Length 546;  
Best Local Similarity 75.0%; Pred. No. 1e+02;  
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 3 REAKQVEKALE 14  
Db 406 REKKQIEKELB 417

## RESULT 17

US-10-706-275-9  
Sequence 9, Application US/10706275  
Publication No. US20050002956A1  
GENERAL INFORMATION:  
APPLICANT: ID Biomedical Corporation of Quebec  
APPLICANT: The Council of the Queensland Institute of Medical Research  
APPLICANT: Lowell, George H.  
APPLICANT: Burt, David S.  
APPLICANT: White, Gregory L.  
APPLICANT: Good, Michael F.  
APPLICANT: Batzloff, Michael R.  
APPLICANT: Leanderson, Tomas B.  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: 021989-000710US  
CURRENT APPLICATION NUMBER: US/10/706,275  
CURRENT FILING DATE: 2003-11-13  
PRIOR APPLICATION NUMBER: US 60/426,409  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: AU 2002302132  
PRIOR FILING DATE: 2002-11-15  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 9  
LENGTH: 28  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:

OTHER INFORMATION: antigenic peptide sequence derivative of p145 base  
US-10-706-275-9

Query Match 69.5%; Score 44.5; DB 5; Length 28;  
Best Local Similarity 70.6%; Pred. No. 5.7;  
Matches 12; Conservative 1; Mismatches 1; Indels 3; Gaps 1;

OY 1 ASREAKQVE---KALE 14  
Db 12 ASREAKQVODKVKQLB 28

## RESULT 18

US-09-309-196-83  
Sequence 83, Application US/09309196  
Publication No. US20030008380A1  
GENERAL INFORMATION:  
APPLICANT: FOLMKES, Dana M.  
APPLICANT: BROACH, Jim  
APPLICANT: MANFREDI, John  
APPLICANT: KLEIN, Christine  
APPLICANT: MURPHY, Andrew J.  
APPLICANT: PAUL, Jeremy  
APPLICANT: TRUEBART, Joshua  
TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE  
TITLE OF INVENTION: PHEROMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR  
NUMBER OF SEQUENCES: 119  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BROMDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/309,196  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/322,137  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/190,328  
FILING DATE: 31-JAN-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/041,431  
FILING DATE: 31-MAR-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: COOPER, Iyer P.  
REGISTRATION NUMBER: 28,005  
REFERENCE/DOCKET NUMBER: FOLMKES-2C  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-628-5197  
TELEFAX: 202-737-3528  
TELEX: 248633  
INFORMATION FOR SEQ ID NO: 83:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 65 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-309-196-83

Query Match 65.6%; Score 42; DB 3; Length 65;  
Best Local Similarity 57.1%; Pred. No. 33;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 ASREAKQOVERALE 14  
| | | | : | | | :  
Db 18 AOREANKKIEKOLQ 31

RESULT 19  
US-10-263-341-83

; Sequence 83, Application US/10263341  
; Publication No. US20030203417A1  
; GENERAL INFORMATION:

APPLICANT: FOMLKEs, Dana M.  
BROACH, Jim  
MANFREDI, John  
KLEIN, Christine  
MURPHY, Andrew J.  
PAUL, Jeremy  
TRUEHEART, Joshua

TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE  
PHERMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR

NUMBER OF SEQUENCES: 119

CORRESPONDENCE ADDRESS:

ADDRESS: BROWDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/263,341

FILING DATE: 01-Oct-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/322,137

FILING DATE: 13-Oct-1994

APPLICATION NUMBER: US 08/309,313

FILING DATE: 20-SEP-1994

APPLICATION NUMBER: US 08/190,328

FILING DATE: 31-JAN-1994

APPLICATION NUMBER: US 08/041,431

FILING DATE: 31-MAR-1993

ATTORNEY/AGENT INFORMATION:

NAME: COOPER, Iver P.

REGISTRATION NUMBER: 28,005

REFERENCE/DOCKET NUMBER: FOMLKEs=2C

TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-628-5197

TELEFAX: 202-737-3528

TELEX: 248633

INFORMATION FOR SEQ ID NO: 83:

SEQUENCE CHARACTERISTICS:

LENGTH: 65 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 83:

US-10-263-341-83

Query Match 65.6%; Score 42; DB 4; Length 65;

Best Local Similarity 57.1%; Pred. No. 33;

Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 ASREAKQOVERALE 14  
| | | | : | | | :  
Db 18 AOREANKKIEKOLQ 31

RESULT 20

US-10-600-003-83  
; Sequence 83, Application US/10600003  
; Publication No. US20040197840A1  
; GENERAL INFORMATION:

APPLICANT: FOMLKEs, Dana M.  
BROACH, Jim  
MANFREDI, John  
KLEIN, Christine  
MURPHY, Andrew J.  
PAUL, Jeremy  
TRUEHEART, Joshua

TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE  
PHERMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR

NUMBER OF SEQUENCES: 119

CORRESPONDENCE ADDRESS:

ADDRESS: LAHIVE AND COCKFIELD  
STREET: 60 State Street, Suite 510  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/600,003

FILING DATE: 18-Oct-2003

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/286,166

FILING DATE: 05-APR-1999

APPLICATION NUMBER: US 08/461,383

FILING DATE: 13-Oct-1994

APPLICATION NUMBER: US 08/322,137

FILING DATE: 05-JUN-1995

APPLICATION NUMBER: US 08/309,313

FILING DATE: 20-SEP-1994

APPLICATION NUMBER: US 08/190,328

FILING DATE: 31-JAN-1994

APPLICATION NUMBER: US 08/041,431

FILING DATE: 31-MAR-1993

ATTORNEY/AGENT INFORMATION:

NAME: Vincent, Matthew P

REGISTRATION NUMBER: 36,709

REFERENCE/DOCKET NUMBER: CPI-012CP4B

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-227-7400

TELEFAX: 617-227-5941

TELEX: 752806

INFORMATION FOR SEQ ID NO: 83:

SEQUENCE CHARACTERISTICS:

LENGTH: 65 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 83:

US-10-600-003-83

Query Match 65.6%; Score 42; DB 4; Length 65;

Best Local Similarity 57.1%; Pred. No. 33;

Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 ASREAKQOVERALE 14  
| | | | : | | | :  
Db 18 AOREANKKIEKOLQ 31

RESULT 21

US-10-424-599-223904

; Sequence 223904, Application US/10424599

Publication No. US20040031072A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa Thomas J  
APPLICANT: Kovalic David K  
APPLICANT: Zhou Yihua  
APPLICANT: Cao Yongwei  
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53223)B  
CURRENT APPLICATION NUMBER: US/10/424,599  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 285684  
SEQ ID NO 223904  
LENGTH: 86  
TYPE: PRT  
ORGANISM: Glycine max  
FEATURES:  
NAME/KEY: unsure  
LOCATION: (1)..(86)  
OTHER INFORMATION: unsure at all Xaa locations  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT3847\_44214C.1.pep  
US-10-424-599-223904

Query Match 65.6%; Score 42; DB 4; Length 86;  
Best Local Similarity 57.1%; Pred. No. 45;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

CY 1 ASREAKKQVEKALE 14  
DB 6 AIREANKKIEKQLO 19

RESULT 22  
US-10-732-923-7618  
Sequence 7618, Application US/10/732923  
Publication No. US20050108791A1  
GENERAL INFORMATION:  
APPLICANT: Edgerton, Michael D  
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
FILE REFERENCE: 38-15(52796)C  
CURRENT APPLICATION NUMBER: US/10/732,923  
CURRENT FILING DATE: 2003-12-10  
PRIOR APPLICATION NUMBER: 10/310,154  
PRIOR FILING DATE: 2002-12-04  
NUMBER OF SEQ ID NOS: 24149  
SEQ ID NO 7618  
LENGTH: 377  
TYPE: PRT  
ORGANISM: Mus musculus  
US-10-732-923-7618

Query Match 65.6%; Score 42; DB 5; Length 377;  
Best Local Similarity 57.1%; Pred. No. 2.1e+02;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

CY 1 ASREAKKQVEKALE 14  
DB 16 AIREANKKIEKQLO 29

RESULT 23  
US-09-952-680A-15  
Sequence 15, Application US/09952680A  
Publication No. US20030087239A1  
GENERAL INFORMATION:  
APPLICANT: Stanton, Mary  
APPLICANT: Epstein, David  
APPLICANT: Hamaguchi, No. US20030087239A1uko  
TITLE OF INVENTION: Target Activated Biosensor and Methods of Using Same  
FILE REFERENCE: 23239-501  
CURRENT APPLICATION NUMBER: US/09/952,680A  
CURRENT FILING DATE: 2001-09-13

PRIOR APPLICATION NUMBER: 60/232,454  
PRIOR FILING DATE: 2000-09-13  
NUMBER OF SEQ ID NOS: 75  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 15  
LENGTH: 379  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-952-680A-15

Query Match 65.6%; Score 42; DB 3; Length 379;  
Best Local Similarity 57.1%; Pred. No. 2.1e+02;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

CY 1 ASREAKKQVEKALE 14  
DB 18 AIREANKKIEKQLO 31

RESULT 24  
US-10-408-765A-105  
Sequence 105, Application US/10/408765A  
Publication No. US20040101874A1  
GENERAL INFORMATION:  
APPLICANT: Ghosh, Soumitra S.  
APPLICANT: Fahy, Boia D.  
APPLICANT: Zhang, Bing  
APPLICANT: Gibson, Bradford W.  
APPLICANT: Taylor, Steven W.  
APPLICANT: Glenn, Gary M.  
APPLICANT: Warnock, Dale E.  
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION  
FILE REFERENCE: 660088.465  
CURRENT APPLICATION NUMBER: US/10/408,765A  
CURRENT FILING DATE: 2003-04-04  
NUMBER OF SEQ ID NOS: 3077  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 105  
LENGTH: 379  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-408-765A-105

Query Match 65.6%; Score 42; DB 4; Length 379;  
Best Local Similarity 57.1%; Pred. No. 2.1e+02;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

CY 1 ASREAKKQVEKALE 14  
DB 18 AIREANKKIEKQLO 31

RESULT 25  
US-10-215-982-15  
Sequence 15, Application US/10215982  
Publication No. US20040219523A1  
GENERAL INFORMATION:  
APPLICANT: Stanton, Martin  
APPLICANT: Epstein, David  
APPLICANT: Hamaguchi, Nobuko  
APPLICANT: Kurtz, Markus  
APPLICANT: Keefe, Tony  
APPLICANT: Wilson, Charles  
APPLICANT: Grate, Dilara  
APPLICANT: Marshall, Kristin  
APPLICANT: McCauley, Thomas  
APPLICANT: Kurtz, Jeffrey  
TITLE OF INVENTION: NUCLEIC ACID SENSOR MOLECULES AND METHODS OF USING SAME  
FILE REFERENCE: 23239-501 CIP  
CURRENT APPLICATION NUMBER: US/10/215,982  
CURRENT FILING DATE: 2002-08-09  
PRIOR APPLICATION NUMBER: 60/232,454



```
; PRIOR FILING DATE: 2000-09-13
; PRIOR APPLICATION NUMBER: 09/952,680
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/311,378
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/313,932
; PRIOR FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: 60/338,186
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: 60/349,959
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: 60/364,486
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/376,744
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 60/367,991
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: 60/369,887
; PRIOR FILING DATE: 2002-04-04
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 372
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 379
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-215-982-15
```

```
Query Match      65.6%; Score 42; DB 5; Length 379;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Oy      1 ASREAKKOVERKALE 14
        |||||:||||:
Db      18 AOREANKKIEKQLO 31
```

```
RESULT 26
US-10-732-923-7963
; Sequence 7963, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 7963
; LENGTH: 379
; TYPE: PRT
; ORGANISM: Xenopus laevis
US-10-732-923-7963
```

```
Query Match      65.6%; Score 42; DB 5; Length 379;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Oy      1 ASREAKKOVERKALE 14
        |||||:||||:
Db      18 AOREANKKIEKQLO 31
```

```
RESULT 27
US-10-732-923-8015
; Sequence 8015, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
```

```
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8015
; LENGTH: 379
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8015
```

```
Query Match      65.6%; Score 42; DB 5; Length 379;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Oy      1 ASREAKKOVERKALE 14
        |||||:||||:
Db      18 AOREANKKIEKQLO 31
```

```
RESULT 28
US-09-952-680A-16
; Sequence 16, Application US/09952680A
; Publication No. US20030087239A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Mary
; APPLICANT: Epstein, David
; TITLE OF INVENTION: Target Activated Biosensor and Methods of Using Same
; FILE REFERENCE: 23239-501
; CURRENT APPLICATION NUMBER: US/09/952,680A
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/232,454
; PRIOR FILING DATE: 2000-09-13
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-952-680A-16
```

```
Query Match      65.6%; Score 42; DB 3; Length 380;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Oy      1 ASREAKKOVERKALE 14
        |||||:||||:
Db      18 AOREANKKIEKQLO 31
```

```
RESULT 29
US-10-215-982-16
; Sequence 16, Application US/10215982
; Publication No. US20040219523A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Martin
; APPLICANT: Epstein, David
; APPLICANT: Hamaguchi, Nobuko
; APPLICANT: Kurz, Markus
; APPLICANT: Keefe, Tony
; APPLICANT: Wilson, Charles
; APPLICANT: Grate, Dylara
; APPLICANT: Marshall, Kristin
; APPLICANT: McCauley, Thomas
; APPLICANT: Kurz, Jeffrey
; TITLE OF INVENTION: NUCLEIC ACID SENSOR MOLECULES AND METHODS OF USING SAME
; FILE REFERENCE: 23239-501 CIP
; CURRENT APPLICATION NUMBER: US/10/215,982
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/232,454
; PRIOR FILING DATE: 2000-09-13
; PRIOR APPLICATION NUMBER: 09/952,680
```

```

; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/311,378
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/313,932
; PRIOR FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: 60/338,186
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: 60/349,959
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: 60/364,486
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/376,744
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 60/367,991
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: 60/369,887
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-215-982-16
```

```
Query Match      65.6%; Score 42; DB 5; Length 380;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 ASREAKKQVEKALE 14
        |||||::|||:
Db      18 AOREANKKIEKQLO 31
```

```
RESULT 30
US-10-732-923-8016
; Sequence 8016, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8016
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8016
```

```
Query Match      65.6%; Score 42; DB 5; Length 380;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 ASREAKKQVEKALE 14
        |||||::|||:
Db      18 AOREANKKIEKQLO 31
```

```
RESULT 31
US-10-732-923-8055
; Sequence 8055, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
```

```

; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8055
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-732-923-8055
```

```
Query Match      65.6%; Score 42; DB 5; Length 380;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 ASREAKKQVEKALE 14
        |||||::|||:
Db      18 AOREANKKIEKQLO 31
```

```
RESULT 32
US-10-732-923-8022
; Sequence 8022, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8022
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8022
```

```
Query Match      65.6%; Score 42; DB 5; Length 384;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 ASREAKKQVEKALE 14
        |||||::|||:
Db      7 AOREANKKIEKQLO 20
```

```
RESULT 33
US-10-732-923-8054
; Sequence 8054, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8054
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-732-923-8054
```

```
Query Match      65.6%; Score 42; DB 5; Length 388;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 ASREAKKQVEKALE 14
        |||||::|||:
Db      18 AOREANKKIEKQLO 31
```

```
RESULT 34
US-09-952-680A-13
; Sequence 13, Application US/09952680A
; Publication No. US20030087239A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Marty
; APPLICANT: Epstein, David
; APPLICANT: Hamaguchi, No. US20030087239A1uko
; TITLE OF INVENTION: Target Activated Biosensor and Methods of Using Same
; FILE REFERENCE: 23339-501
; CURRENT APPLICATION NUMBER: US/09/952,680A
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/232,454
; PRIOR FILING DATE: 2000-09-13
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-952-680A-13

Query Match      65.6%; Score 42; DB 3; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQOVERALE 14
Db      18 AOREANKKIEKQLO 31

RESULT 35
US-09-963-131-192
; Sequence 192, Application US/09963131
; Publication No. US20030224460A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, Finn Skou
; APPLICANT: Sorensen, Annette Balle
; APPLICANT: Hernandez, Javier Martin
; APPLICANT: Nielsen, Anne Ahlmann
; APPLICANT: Moving, Helie
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR LYMPHOMA AND LEUKEMIA
; FILE REFERENCE: 529452000323
; CURRENT APPLICATION NUMBER: US/09/963,131
; PRIOR FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: US 09/668,644
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: US 09/905,390
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 09/905,491
; PRIOR FILING DATE: 2001-07-13
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 192
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-963-131-192

Query Match      65.6%; Score 42; DB 3; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQOVERALE 14
Db      18 AOREANKKIEKQLO 31

RESULT 36
US-09-963-131-194
; Sequence 194, Application US/09963131
; Publication No. US20030224460A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Pedersen, Finn Skou
; APPLICANT: Sorensen, Annette Balle
; APPLICANT: Hernandez, Javier Martin
; APPLICANT: Nielsen, Anne Ahlmann
; APPLICANT: Moving, Helie
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR LYMPHOMA AND LEUKEMIA
; FILE REFERENCE: 529452000323
; CURRENT APPLICATION NUMBER: US/09/963,131
; PRIOR FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: US 09/668,644
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: US 09/905,390
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 09/905,491
; PRIOR FILING DATE: 2001-07-13
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 194
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-963-131-194

Query Match      65.6%; Score 42; DB 3; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQOVERALE 14
Db      18 AOREANKKIEKQLO 31

RESULT 37
US-10-116-275-187
; Sequence 187, Application US/10116275
; Publication No. US20030211476A1
; GENERAL INFORMATION:
; APPLICANT: Eilan Pharmaceutical Technology
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Brayden, David
; APPLICANT: Byrne, Darragh
; APPLICANT: Lambkin, Imelda
; APPLICANT: Higgins, Lisa
; TITLE OF INVENTION: Genetic Analysis of Peyer's Patches and M Cells and Methods and
; FILE REFERENCE: E1067/20087
; CURRENT APPLICATION NUMBER: US/10/116,275
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 187
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-116-275-187

Query Match      65.6%; Score 42; DB 4; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQOVERALE 14
Db      18 AOREANKKIEKQLO 31

RESULT 38
US-10-352-843-18
; Sequence 18, Application US/10352843
; Publication No. US20040014135A1
; GENERAL INFORMATION:
; APPLICANT: Moore, Lisa
; APPLICANT: Kindt, Rachel
```

APPLICANT: Koczynski, Jenny  
APPLICANT: Dobrestein, Stephen  
APPLICANT: Cockett, Mark  
APPLICANT: Ramanathan, Chandra  
APPLICANT: Lodge, Nicholas  
APPLICANT: Fitzgerald, Kevin  
APPLICANT: Stouch, Terry  
TITLE OF INVENTION: MOLECULES THAT MODULATE G(Alpha)q ACTIVITY AND METHODS OF  
TITLING OF INVENTION: TREATING UNINARY INCONTINENCE  
FILE REFERENCE: 5624-277-999  
CURRENT FILING DATE: 2003-01-27  
CURRENT APPLICATION NUMBER: US/10/352,843  
PRIOR FILING DATE: 2003-01-27  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: Patentin version 3.2  
SEQ ID NO 18  
LENGTH: 394  
TYPE: PRT  
ORGANISM: Artificial  
FEATURE:  
OTHER INFORMATION: G-protein of the invention  
US-10-352-843-18

Query Match 65.6%; Score 42; DB 4; Length 394;  
Best Local Similarity 57.1%; Pred. No. 2.2e+02;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVEKALE 14  
Db 18 AGRANKIKKQLQ 31

RESULT 39  
US-10-215-982-13  
Sequence 13, Application US/10215982  
Publication No. US20040219523A1  
GENERAL INFORMATION:  
APPLICANT: Stanton, Martin  
APPLICANT: Epstein, David  
APPLICANT: Hamauchi, Nobuko  
APPLICANT: Kurz, Markus  
APPLICANT: Keefe, Tony  
APPLICANT: Wilson, Charles  
APPLICANT: Grate, Dilara  
APPLICANT: Marshall, Kristin  
APPLICANT: McCauley, Thomas  
APPLICANT: Kurz, Jeffrey  
TITLE OF INVENTION: NUCLEIC ACID SENSOR MOLECULES AND METHODS OF USING SAME  
FILE REFERENCE: 23239-501 CIP  
CURRENT APPLICATION NUMBER: US/10/215,982  
CURRENT FILING DATE: 2002-08-09  
PRIOR APPLICATION NUMBER: 60/232,454  
PRIOR FILING DATE: 2000-09-13  
PRIOR APPLICATION NUMBER: 09/952,680  
PRIOR FILING DATE: 2001-09-13  
PRIOR APPLICATION NUMBER: 60/311,378  
PRIOR FILING DATE: 2001-08-09  
PRIOR APPLICATION NUMBER: 60/313,932  
PRIOR FILING DATE: 2001-08-21  
PRIOR APPLICATION NUMBER: 60/338,186  
PRIOR FILING DATE: 2001-11-13  
PRIOR APPLICATION NUMBER: 60/349,959  
PRIOR FILING DATE: 2002-01-18  
PRIOR APPLICATION NUMBER: 60/364,486  
PRIOR FILING DATE: 2002-03-13  
PRIOR APPLICATION NUMBER: 60/376,744  
PRIOR FILING DATE: 2002-05-01  
PRIOR APPLICATION NUMBER: 60/367,991  
PRIOR FILING DATE: 2002-03-25  
PRIOR APPLICATION NUMBER: 60/369,887  
PRIOR FILING DATE: 2002-04-04  
Remaining Prior Application data removed - See file wrapper or PALM.

NUMBER OF SEQ ID NOS: 372  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 13  
LENGTH: 394  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-215-982-13

Query Match 65.6%; Score 42; DB 5; Length 394;  
Best Local Similarity 57.1%; Pred. No. 2.2e+02;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVEKALE 14  
Db 18 AGRANKIKKQLQ 31

RESULT 40  
US-10-684-422-194  
Sequence 194, Application US/10684422  
Publication No. US20040229233A1  
GENERAL INFORMATION:  
APPLICANT: YAMAMOTO, Shogo  
APPLICANT: AURATANI, Hiroyuki  
TITLE OF INVENTION: Human housekeeping genes and human tissue-specific genes  
FILE REFERENCE: 113991  
CURRENT APPLICATION NUMBER: US/10/684,422  
CURRENT FILING DATE: 2002-10-15  
PRIOR APPLICATION NUMBER: US 60/418,614  
PRIOR FILING DATE: 2002-10-16  
NUMBER OF SEQ ID NOS: 332  
SOFTWARE: Patentin version 3.2  
SEQ ID NO 194  
LENGTH: 394  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-684-422-194

Query Match 65.6%; Score 42; DB 5; Length 394;  
Best Local Similarity 57.1%; Pred. No. 2.2e+02;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVEKALE 14  
Db 18 AGRANKIKKQLQ 31

RESULT 41  
US-10-732-923-7589  
Sequence 7589, Application US/10732923  
Publication No. US20050108791A1  
GENERAL INFORMATION:  
APPLICANT: Edgerton, Michael D  
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
FILE REFERENCE: 38-15(52796)C  
CURRENT APPLICATION NUMBER: US/10/732,923  
CURRENT FILING DATE: 2003-12-10  
PRIOR APPLICATION NUMBER: 10/310,154  
PRIOR FILING DATE: 2002-12-04  
NUMBER OF SEQ ID NOS: 24149  
SEQ ID NO 7589  
LENGTH: 394  
TYPE: PRT  
ORGANISM: *Cruciferales griseus*  
US-10-732-923-7589

Query Match 65.6%; Score 42; DB 5; Length 394;  
Best Local Similarity 57.1%; Pred. No. 2.2e+02;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVEKALE 14  
Db 18 AGRANKIKKQLQ 31

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RESULT 42
US-10-732-923-7592
; Sequence 7592, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 7592
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Cricetus longicaudatus
US-10-732-923-7592

Query Match      65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQVEKALE 14
        |||||:||||:
Db      18 AGRANKKIKKQLQ 31

RESULT 43
US-10-732-923-7620
; Sequence 7620, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 7620
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-732-923-7620

Query Match      65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQVEKALE 14
        |||||:||||:
Db      18 AGRANKKIKKQLQ 31

RESULT 44
US-10-732-923-7653
; Sequence 7653, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 7653
; LENGTH: 394
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; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-732-923-7653

Query Match      65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQVEKALE 14
        |||||:||||:
Db      18 AGRANKKIKKQLQ 31

RESULT 45
US-10-732-923-8017
; Sequence 8017, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8017
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8017

Query Match      65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQVEKALE 14
        |||||:||||:
Db      18 AGRANKKIKKQLQ 31

RESULT 46
US-10-732-923-8019
; Sequence 8019, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8019
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8019

Query Match      65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQVEKALE 14
        |||||:||||:
Db      18 AGRANKKIKKQLQ 31

RESULT 47
US-10-732-923-8058
; Sequence 8058, Application US/10732923
; Publication No. US20050108791A1
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; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8058
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-732-923-8058

Query Match          65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches      8; Conservative      3; Mismatches      3; Indels      0; Gaps      0;

QY      1 ASREAKKQVEKALE 14
        |||||:|:|:|:|
Db      18 AGRANKKIKKQLQ 31

RESULT 48
US-09-952-680A-14
; Sequence 14, Application US/09952680A
; Publication No. US20030087239A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Marty
; APPLICANT: Epstein, David
; APPLICANT: Hamaguchi, No. US20030087239A1uko
; TITLE OF INVENTION: Target Activated Biosensor and Methods of Using Same
; FILE REFERENCE: 23239-501
; CURRENT APPLICATION NUMBER: US/09/952,680A
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/232,454
; PRIOR FILING DATE: 2000-09-13
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 395
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-952-680A-14

Query Match          65.6%; Score 42; DB 3; Length 395;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches      8; Conservative      3; Mismatches      3; Indels      0; Gaps      0;

QY      1 ASREAKKQVEKALE 14
        |||||:|:|:|:|
Db      18 AGRANKKIKKQLQ 31

RESULT 49
US-10-215-982-14
; Sequence 14, Application US/10215982
; Publication No. US20040219523A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Martin
; APPLICANT: Epstein, David
; APPLICANT: Hamaguchi, Nobuko
; APPLICANT: Kurz, Markus
; APPLICANT: Keefe, Tony
; APPLICANT: Wilson, Charles
; APPLICANT: Grate, Dilara
; APPLICANT: Marshall, Kirstin
; APPLICANT: McCauley, Thomas
; APPLICANT: Kurz, Jeffrey
; TITLE OF INVENTION: NUCLEIC ACID SENSOR MOLECULES AND METHODS OF USING SAME
; FILE REFERENCE: 23239-501 CIP
; CURRENT APPLICATION NUMBER: US/10/215,982
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; CURRENT FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/232,454
; PRIOR FILING DATE: 2000-09-13
; PRIOR APPLICATION NUMBER: 09/952,680
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/311,378
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/313,932
; PRIOR FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: 60/338,186
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: 60/349,959
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: 60/364,486
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/376,744
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 60/367,991
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: 60/369,887
; PRIOR FILING DATE: 2002-04-04
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 372
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 395
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-215-982-14

Query Match          65.6%; Score 42; DB 5; Length 395;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches      8; Conservative      3; Mismatches      3; Indels      0; Gaps      0;

QY      1 ASREAKKQVEKALE 14
        |||||:|:|:|:|
Db      18 AGRANKKIKKQLQ 31

RESULT 50
US-10-732-923-8021
; Sequence 8021, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8021
; LENGTH: 395
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8021

Query Match          65.6%; Score 42; DB 5; Length 395;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches      8; Conservative      3; Mismatches      3; Indels      0; Gaps      0;

QY      1 ASREAKKQVEKALE 14
        |||||:|:~|:|:|
Db      18 AGRANKKIKKQLQ 31

Search completed: March 28, 2006, 19:17:28
Job time : 179 secs
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GenCore version 5.1.7  
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OM protein - protein search, using SW model

Run on: March 28, 2006, 19:02:40 ; Search time 47 Seconds  
(without alignments)  
24.627 Million cell updates/sec

Title: US-10-706-275A-1  
Perfect score: 64  
Sequence: 1 ASREAKQVEKALR 14

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Issued Patents, AA:\*  
1: /cgn2\_6/ptodata/1/1aa/5.COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/6.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/H.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/PCntus.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/RB.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfiletest.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	64	100.0	20	2	US-08-817-811-1 Sequence 1, Appli
2	64	100.0	236	2	US-08-937-271-11 Sequence 11, Appli
3	64	100.0	254	2	US-08-914-479A-4 Sequence 4, Appli
4	64	100.0	284	2	US-08-914-479A-6 Sequence 6, Appli
5	64	100.0	305	2	US-08-937-271-10 Sequence 10, Appli
6	64	100.0	440	2	US-08-302-756E-35 Sequence 35, Appli
7	64	100.0	443	1	US-08-795-475-6 Sequence 6, Appli
8	64	100.0	443	1	US-08-325-278B-6 Sequence 6, Appli
9	56	87.5	12	2	US-08-817-811-34 Sequence 11, Appli
10	55	85.9	12	2	US-08-817-811-11 Sequence 11, Appli
11	55	85.9	12	2	US-08-817-811-32 Sequence 32, Appli
12	55	85.9	12	2	US-08-817-811-33 Sequence 33, Appli
13	52	81.2	28	2	US-08-817-811-18 Sequence 18, Appli
14	51	79.2	12	2	US-08-817-811-31 Sequence 31, Appli
15	47.5	74.7	28	2	US-08-817-811-17 Sequence 17, Appli
16	46	71.9	12	2	US-08-817-811-10 Sequence 10, Appli
17	46	71.9	12	2	US-08-817-811-30 Sequence 30, Appli
18	46	71.9	20	2	US-08-817-811-38 Sequence 38, Appli
19	44.5	69.5	94	2	US-08-817-811-16 Sequence 16, Appli
20	43	67.2	28	2	US-08-937-271-18 Sequence 18, Appli
21	43	67.2	343	2	US-08-937-271-17 Sequence 17, Appli
22	43	67.2	683	6	US-08-464-531-83 Sequence 83, Appli
23	42	65.6	65	1	US-08-464-531-83 Sequence 83, Appli
24	42	65.6	65	1	US-08-461-598-83 Sequence 83, Appli
25	42	65.6	65	1	US-08-322-137-83 Sequence 83, Appli
26	42	65.6	380	2	US-08-307-896-1 Sequence 1, Appli
27	42	65.6	394	2	US-09-442-349A-106 Sequence 106, App

28	42	65.6	394	4	PCT-US95-11808-1 Sequence 1, Appli
29	42	65.6	409	2	US-09-902-540-12745 Sequence 12745, A
30	42	65.6	775	2	US-09-513-838-6 Sequence 6, Appli
31	42	65.6	869	2	US-10-314-048A-100 Sequence 100, App
32	42	65.6	925	2	US-10-314-048A-104 Sequence 104, App
33	42	65.6	1181	2	US-09-826-509-587 Sequence 587, App
34	41.5	64.8	28	2	US-08-817-811-67 Sequence 67, Appli
35	41	64.1	12	2	US-08-817-811-29 Sequence 29, Appli
36	41	64.1	514	1	US-08-960-022-14 Sequence 14, Appli
37	40	62.5	28	2	US-08-817-811-15 Sequence 15, Appli
38	39	60.9	64	2	US-09-583-110-4222 Sequence 4222, Ap
39	39	60.9	85	2	US-09-513-999C-4636 Sequence 4636, Ap
40	39	60.9	96	2	US-09-107-433-3416 Sequence 3416, Ap
41	39	60.9	442	2	US-09-964-956-19 Sequence 19, Appli
42	39	60.9	442	2	US-09-964-956-21 Sequence 21, Appli
43	39	60.9	442	2	US-09-964-956-23 Sequence 23, Appli
44	39	60.9	442	2	US-09-964-956-55 Sequence 55, Appli
45	39	60.9	442	2	US-09-964-956-56 Sequence 56, Appli
46	39	60.9	459	2	US-09-270-767-45471 Sequence 45471, A
47	38	59.4	8	2	US-08-817-811-8 Sequence 8, Appli
48	38	59.4	19	6	US-08-817-811-14 Sequence 14, Appli
49	38	59.4	78	2	US-09-248-796A-27030 Sequence 27030, A
50	38	59.4	174	2	US-09-861-451A-58 Sequence 58, Appli
51	38	59.4	344	2	US-09-134-001C-4784 Sequence 4784, Ap
52	38	59.4	344	6	US-09-134-001C-4784 Patent No. 5210183
53	38	59.4	388	2	US-09-949-016-9025 Sequence 9025, Ap
54	38	59.4	537	2	US-09-328-352-5875 Sequence 5875, Ap
55	38	59.4	869	2	US-09-252-991A-22290 Sequence 22290, A
56	38	59.4	924	2	US-09-248-796A-18798 Sequence 18798, A
57	37	57.8	8	2	US-08-817-811-7 Sequence 7, Appli
58	37	57.8	12	2	US-08-817-811-15 Sequence 15, Appli
59	37	57.8	28	2	US-08-817-811-14 Sequence 14, Appli
60	37	57.8	144	2	US-09-252-991A-19001 Sequence 19001, A
61	37	57.8	200	2	US-09-710-279-1186 Sequence 1186, Ap
62	37	57.8	200	2	US-09-710-279-2390 Sequence 2390, Ap
63	37	57.8	208	2	US-09-134-001C-3785 Sequence 3785, Ap
64	37	57.8	304	2	US-09-933-999A-36 Sequence 36, Appli
65	37	57.8	329	2	US-09-107-532A-4092 Sequence 4092, Ap
66	37	57.8	397	2	US-09-770-509-20 Sequence 20, Appli
67	37	57.8	437	1	US-08-883-515-4 Sequence 4, Appli
68	37	57.8	1242	2	US-09-107-532A-5241 Sequence 5241, Ap
69	37	57.8	2954	2	US-09-150-867-1 Sequence 1, Appli
70	36.5	57.0	806	1	US-08-451-715A-6 Sequence 6, Appli
71	36	56.2	14	1	US-08-232-453A-49 Sequence 49, Appli
72	36	56.2	14	1	US-08-232-453A-51 Sequence 51, Appli
73	36	56.2	35	2	US-09-856-070-2 Sequence 2, Appli
74	36	56.2	125	2	US-09-544-683-1 Sequence 1, Appli
75	36	56.2	125	2	US-10-192-419-1 Sequence 1, Appli
76	36	56.2	130	2	US-09-248-796A-19717 Sequence 19717, A
77	36	56.2	136	2	US-09-732-210-808 Sequence 808, App
78	36	56.2	193	2	US-09-270-767-48685 Sequence 48685, A
79	36	56.2	248	2	US-09-134-000C-6155 Sequence 6155, Ap
80	36	56.2	342	2	US-09-134-000C-6595 Sequence 6595, Ap
81	36	56.2	342	2	US-09-902-540-10704 Sequence 10704, A
82	36	56.2	409	2	US-09-533-029-104 Sequence 104, App
83	36	56.2	515	2	US-09-489-039A-10635 Sequence 10635, A
84	36	56.2	573	2	US-09-134-000C-5258 Sequence 5258, Ap
85	36	56.2	586	2	US-09-040-725A-1 Sequence 1, Appli
86	36	56.2	659	2	US-09-134-001C-5537 Sequence 5537, Ap
87	36	56.2	1031	2	US-08-811-682-15 Sequence 15, Appli
88	36	56.2	1125	2	US-09-900-920-60 Sequence 60, Appli
89	36	56.2	1270	2	US-09-538-092-1321 Sequence 1321, Ap
90	36	56.2	1285	1	US-07-582-945-2 Sequence 2, Appli
91	36	56.2	1285	1	US-08-433-141-2 Sequence 2, Appli
92	36	56.2	1285	1	US-08-293-314-2 Sequence 2, Appli
93	36	56.2	1285	1	US-08-293-314-2 Sequence 2, Appli
94	36	56.2	1876	1	US-09-487-558B-102 Sequence 102, App
95	35	54.7	57	2	US-09-732-210-477 Sequence 477, App
96	35	54.7	165	2	US-09-538-092-171 Sequence 171, App
97	35	54.7	252	2	US-09-902-540-12415 Sequence 12415, A
98	35	54.7	256	2	US-09-489-039A-11447 Sequence 11447, A
99	35	54.7	263	2	US-09-489-039A-13979 Sequence 13979, A
100	35	54.7	281	2	US-09-355-166-5 Sequence 5, Appli

101	35	54.7	351	2	US-09-940-244-361	Sequence 361, App	174	34	53.1	278	2	US-09-902-540-12651	Sequence 12651, A
102	35	54.7	365	1	US-08-467-559B-9	Sequence 9, Appl1	175	34	53.1	284	2	US-09-056-019C-3	Sequence 3, Appl1
103	35	54.7	366	2	US-09-489-039A-10346	Sequence 10346, A	176	34	53.1	285	2	US-09-489-039A-7446	Sequence 7446, Ap
104	35	54.7	377	4	US-08-118-270-14	Sequence 14, Appl1	177	34	53.1	291	2	US-09-315-793-62	Sequence 62, Appl1
105	35	54.7	377	4	PCT-US93-08528-14	Sequence 14, Appl1	178	34	53.1	304	2	US-09-605-703B-442	Sequence 442, App
106	35	54.7	399	2	US-09-489-039A-8023	Sequence 8023, Ap	179	34	53.1	328	2	US-09-583-110-4233	Sequence 4233, Ap
107	35	54.7	418	2	US-09-252-991A-33068	Sequence 33068, A	180	34	53.1	351	2	US-09-940-244-337	Sequence 337, App
108	35	54.7	434	2	US-09-559-193-7	Sequence 7, Appl1	181	34	53.1	351	2	US-09-940-244-341	Sequence 341, App
109	35	54.7	468	1	US-08-390-000A-7	Sequence 7, Appl1	182	34	53.1	350	2	US-09-107-433-3483	Sequence 3483, Ap
110	35	54.7	477	1	US-08-444-734A-4	Sequence 4, Appl1	183	34	53.1	351	2	US-09-543-681A-5390	Sequence 5390, Ap
111	35	54.7	477	1	US-08-087-772A-16	Sequence 16, Appl1	184	34	53.1	372	1	US-07-813-584A-3	Sequence 3, Appl1
112	35	54.7	555	2	US-09-492-709A-308	Sequence 308, App	185	34	53.1	372	1	US-08-330-515-3	Sequence 3, Appl1
113	35	54.7	561	2	US-09-489-039A-8807	Sequence 8807, Ap	186	34	53.1	374	2	US-09-107-532A-5084	Sequence 5084, Ap
114	35	54.7	579	2	US-09-949-016-10483	Sequence 10483, A	187	34	53.1	376	2	US-09-569-348-6	Sequence 6, Appl1
115	35	54.7	583	2	US-09-538-092-1071	Sequence 1071, Ap	188	34	53.1	376	2	US-09-056-019C-7	Sequence 7, Appl1
116	35	54.7	618	2	US-09-949-016-7635	Sequence 7635, Ap	189	34	53.1	376	6	5180810-1	Patent No. 5180810
117	35	54.7	618	2	US-08-895-590-8	Sequence 8, Appl1	190	34	53.1	382	2	US-09-152-886-31	Sequence 4834, Ap
118	35	54.7	649	1	US-08-149-097D-37	Sequence 37, Appl1	191	34	53.1	394	2	US-09-134-001C-4834	Sequence 13, Appl1
119	35	54.7	661	2	US-09-489-039A-13383	Sequence 13383, A	192	34	53.1	406	2	US-09-056-019C-1	Sequence 1, Appl1
120	35	54.7	748	2	US-09-066-046-4	Sequence 4, Appl1	193	34	53.1	412	2	US-09-286-981B-17	Sequence 17, Appl1
121	35	54.7	879	2	US-09-248-796A-20328	Sequence 20328, A	194	34	53.1	412	2	US-10-254-995-13	Sequence 17, Appl1
122	35	54.7	1049	2	US-09-107-532A-5966	Sequence 5966, Ap	195	34	53.1	413	2	US-09-056-019C-35	Sequence 35, Appl1
123	35	54.7	1054	2	US-09-693-542-87	Sequence 87, Appl1	196	34	53.1	414	2	US-09-286-981B-10	Sequence 10, Appl1
124	35	54.7	1067	2	US-09-107-532A-5148	Sequence 5148, Ap	197	34	53.1	414	2	US-09-286-981B-16	Sequence 16, Appl1
125	35	54.7	1786	2	US-08-973-462-8	Sequence 8, Appl1	198	34	53.1	414	2	US-10-254-995-10	Sequence 10, Appl1
126	35	54.7	2008	2	US-09-091-501B-8	Sequence 8, Appl1	199	34	53.1	414	2	US-10-254-995-16	Sequence 16, Appl1
127	35	54.7	2079	2	US-09-949-016-8301	Sequence 8301, Ap	200	34	53.1	414	2	US-10-104-047-3443	Sequence 3443, Ap
128	35	54.7	3433	2	US-09-091-501B-10	Sequence 10, Appl1	201	34	53.1	444	2	US-09-107-532A-6341	Sequence 6341, Ap
129	35	54.7	3433	2	US-09-538-092-1136	Sequence 1136, Ap	202	34	53.1	445	2	US-09-056-019C-36	Sequence 36, Appl1
130	34	53.1	35	1	US-08-383-761-5	Sequence 5, Appl1	203	34	53.1	448	2	US-09-328-571A-13	Sequence 13, Appl1
131	34	53.1	35	1	US-08-824-277-5	Sequence 7, Appl1	204	34	53.1	448	2	US-09-286-981B-7	Sequence 7, Appl1
132	34	53.1	51	1	US-08-383-761-7	Sequence 7, Appl1	205	34	53.1	448	2	US-09-056-019C-24	Sequence 24, Appl1
133	34	53.1	51	1	US-08-824-277-7	Sequence 7, Appl1	206	34	53.1	448	2	US-10-254-995-7	Sequence 7, Appl1
134	34	53.1	70	2	US-09-621-976-4825	Sequence 4825, Ap	207	34	53.1	449	2	US-09-056-019C-37	Sequence 37, Appl1
135	34	53.1	107	2	US-09-056-019C-11	Sequence 11, Appl1	208	34	53.1	446	2	US-09-286-981B-9	Sequence 9, Appl1
136	34	53.1	109	2	US-09-056-019C-5	Sequence 5, Appl1	209	34	53.1	446	2	US-10-254-995-9	Sequence 9, Appl1
137	34	53.1	110	2	US-08-961-083-102	Sequence 102, App	210	34	53.1	460	2	US-09-056-019C-38	Sequence 38, Appl1
138	34	53.1	110	2	US-09-536-784-102	Sequence 102, App	211	34	53.1	506	1	US-08-849-480A-5	Sequence 5, Appl1
139	34	53.1	110	2	US-09-765-271-102	Sequence 102, App	212	34	53.1	504	2	US-09-308-022-6	Sequence 6, Appl1
140	34	53.1	110	2	US-09-765-272A-102	Sequence 102, App	213	34	53.1	611	2	US-08-847-065-25	Sequence 25, Appl1
141	34	53.1	147	2	US-09-270-767-39891	Sequence 39891, A	214	34	53.1	631	2	US-09-829-382-25	Sequence 25, Appl1
142	34	53.1	147	2	US-09-270-767-55108	Sequence 55108, A	215	34	53.1	636	2	US-10-138-075-4	Sequence 4, Appl1
143	34	53.1	149	2	US-09-732-210-161	Sequence 161, App	216	34	53.1	655	2	US-09-056-019C-2	Sequence 2, Appl1
144	34	53.1	149	2	US-09-602-777A-258	Sequence 258, App	217	34	53.1	653	2	US-09-056-019C-8	Sequence 8, Appl1
145	34	53.1	154	2	US-08-858-207A-433	Sequence 433, App	218	34	53.1	666	1	US-08-441-139-16	Sequence 16, App
146	34	53.1	164	2	US-09-252-991A-22863	Sequence 22863, A	219	34	53.1	669	2	US-09-540-236-3666	Sequence 3666, Ap
147	34	53.1	168	1	US-08-441-139-10	Sequence 10, Appl1	220	34	53.1	693	2	US-09-769-787-185	Sequence 185, App
148	34	53.1	169	2	US-09-605-703B-444	Sequence 444, App	221	34	53.1	726	2	US-09-392-714-21	Sequence 21, Appl1
149	34	53.1	173	2	US-09-328-352-4759	Sequence 4759, App	222	34	53.1	721	2	US-09-949-016-9763	Sequence 9763, Ap
150	34	53.1	185	2	US-09-198-452A-184	Sequence 184, App	223	34	53.1	751	2	US-08-969-415-2	Sequence 2, Appl1
151	34	53.1	185	2	US-09-438-185A-166	Sequence 166, App	224	34	53.1	751	2	US-09-538-092-127	Sequence 127, App
152	34	53.1	190	2	US-09-270-767-56653	Sequence 56653, A	225	34	53.1	808	2	US-09-543-681A-4995	Sequence 4995, Ap
153	34	53.1	205	2	US-09-830-230A-628	Sequence 628, App	226	34	53.1	903	2	US-10-104-047-2951	Sequence 2951, Ap
154	34	53.1	210	2	US-09-830-230A-688	Sequence 688, App	227	34	53.1	936	4	PCT-US93-0594A-C	Sequence 2, Appl1
155	34	53.1	212	2	US-09-041-889-1	Sequence 1, Appl1	228	34	53.1	944	2	US-09-134-000C-5578	Sequence 5578, Ap
156	34	53.1	212	2	US-08-837-058-1	Sequence 1, Appl1	229	34	53.1	963	2	US-09-914-259-20	Sequence 20, Appl1
157	34	53.1	219	2	US-09-417-264-1	Sequence 1, Appl1	230	34	53.1	963	2	US-09-914-259-22	Sequence 22, Appl1
158	34	53.1	212	2	US-09-286-981B-6	Sequence 8, Appl1	231	34	53.1	963	2	US-09-538-092-1060	Sequence 1060, Ap
159	34	53.1	219	2	US-10-254-995-8	Sequence 8, Appl1	232	34	53.1	968	2	US-09-328-986-76	Sequence 76, Appl1
160	34	53.1	228	2	US-09-830-230A-627	Sequence 627, App	233	34	53.1	968	2	US-10-101-664A-75	Sequence 76, Appl1
161	34	53.1	230	1	US-08-118-469A-3	Sequence 3, Appl1	234	34	53.1	978	2	US-09-949-016-10196	Sequence 10196, A
162	34	53.1	230	1	US-08-909-119-3	Sequence 3, Appl1	235	34	53.1	1008	2	US-09-308-453-2	Sequence 2493, A
163	34	53.1	230	2	US-09-152-588-3	Sequence 3, Appl1	236	34	53.1	1044	2	US-09-552-991A-22493	Sequence 22493, A
164	34	53.1	230	2	US-09-830-230A-687	Sequence 687, App	237	34	53.1	1070	2	US-09-922-540-13861	Sequence 13861, A
165	34	53.1	249	2	US-09-107-433A-4031	Sequence 4031, App	238	34	53.1	1118	2	US-09-979-623-3	Sequence 3, Appl1
166	34	53.1	251	2	US-09-286-981B-4	Sequence 4, Appl1	239	34	53.1	1111	2	US-10-104-047-2522	Sequence 2522, Ap
167	34	53.1	251	2	US-10-254-995-4	Sequence 4, Appl1	240	34	53.1	1286	6	5206163-1	Patent No. 5206163
168	34	53.1	252	2	US-09-134-001C-3164	Sequence 3164, Ap	241	34	53.1	1401	2	US-09-750-590A-2	Sequence 2, Appl1
169	34	53.1	254	2	US-09-056-019C-9	Sequence 9, Appl1	242	34	53.1	1449	2	US-09-303-518B-652	Sequence 652, App
170	34	53.1	261	2	US-09-583-110-4382	Sequence 4382, App	243	34	53.1	1457	2	US-09-673-896-4	Sequence 4, Appl1
171	34	53.1	261	2	US-09-248-796A-26725	Sequence 26725, A	244	34	53.1	1457	2	US-09-303-518B-650	Sequence 650, App
172	34	53.1	266	2	US-09-075-454-7	Sequence 75, Appl1	245	34	53.1	1712	2	US-09-949-016-9450	Sequence 9450, Ap
173	34	53.1	276	2	US-10-104-047-3850	Sequence 3850, Ap	246	34	53.1	1739	2	US-09-976-594-76	Sequence 76, Appl1



247	34	53.1	1739	2	US-09-538-092-824	Sequence 824, App	320	33	51.6	359	1	US-09-030-582-13	Sequence 13, Appl
248	34	53.1	1740	2	US-09-949-016-5860	Sequence 8860, Ap	321	33	51.6	359	2	US-08-875-540-15	Sequence 15, Appl
249	34	53.1	1836	2	US-09-949-016-7432	Sequence 7432, Ap	322	33	51.6	359	2	US-09-171-456-19	Sequence 19, Appl
250	34	53.1	4019	2	US-09-854-133-425	Sequence 425, App	323	33	51.6	359	2	US-09-473-634-41	Sequence 15, Appl
251	33.5	52.3	445	2	US-09-180-167A-4	Sequence 4, Appl1	324	33	51.6	359	2	US-09-949-016-8201	Sequence 8201, Ap
252	33.5	52.3	445	2	US-09-180-167A-5	Sequence 5, Appl1	325	33	51.6	375	2	US-09-710-279-2918	Sequence 2918, Ap
253	33.5	52.3	445	2	US-09-033-524B-4	Sequence 4, Appl1	326	33	51.6	375	2	US-09-248-796A-19270	Sequence 19270, A
254	33.5	52.3	445	2	US-09-033-524B-5	Sequence 5, Appl1	327	33	51.6	377	2	US-09-134-001C-3200	Sequence 3200, Ap
255	33.5	52.3	245	2	US-09-180-167A-33	Sequence 33, Appl	328	33	51.6	333	2	US-09-949-016-11526	Sequence 11526, A
256	33.5	52.3	245	2	US-09-033-524B-33	Sequence 33, Appl	329	33	51.6	339	2	US-09-270-767-48048	Sequence 48048, A
257	33.5	52.3	246	2	US-09-180-167A-1	Sequence 1, Appl1	330	33	51.6	401	1	US-08-596-111B-2	Sequence 2, Appl1
258	33.5	52.3	246	2	US-09-033-524B-1	Sequence 1, Appl1	331	33	51.6	401	1	US-09-434-774-10	Sequence 10, Appl
259	33	51.6	15	1	US-08-232-453A-61	Sequence 61, Appl	332	33	51.6	402	2	US-09-248-796A-18910	Sequence 18910, A
260	33	51.6	17	1	US-08-232-453A-48	Sequence 48, Appl	333	33	51.6	403	2	US-09-248-796A-18351	Sequence 18351, A
261	33	51.6	17	1	US-08-232-453A-50	Sequence 50, Appl	334	33	51.6	406	2	US-09-252-991A-19757	Sequence 19757, A
262	33	51.6	28	2	US-08-817-811-13	Sequence 13, Appl	335	33	51.6	411	2	US-10-101-464A-982	Sequence 982, App
263	33	51.6	29	2	US-08-488-551B-636	Sequence 636, App	336	33	51.6	416	2	US-09-710-279-1462	Sequence 1462, Ap
264	33	51.6	29	2	US-08-488-551B-637	Sequence 637, App	337	33	51.6	418	2	US-09-134-001C-4149	Sequence 4149, Ap
265	33	51.6	29	2	US-10-290-579A-114	Sequence 114, App	338	33	51.6	422	2	US-10-017-393-2	Sequence 2, Appl1
266	33	51.6	29	2	US-10-290-579A-115	Sequence 115, App	339	33	51.6	440	2	US-09-543-681A-5551	Sequence 5551, Ap
267	33	51.6	34	2	US-09-388-353-636	Sequence 636, App	340	33	51.6	443	2	US-09-248-796A-19547	Sequence 19547, A
268	33	51.6	47	2	US-09-270-767-50620	Sequence 60620, A	341	33	51.6	448	2	US-09-770-509-21	Sequence 21, Appl
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270	33	51.6	64	2	US-09-107-433-4746	Sequence 4746, Ap	343	33	51.6	449	2	US-09-489-039A-13565	Sequence 13565, A
271	33	51.6	69	2	US-09-621-976-7385	Sequence 7385, Ap	344	33	51.6	443	1	US-08-194-338A-7	Sequence 7, Appl1
272	33	51.6	90	2	US-09-252-991A-23078	Sequence 23078, A	345	33	51.6	444	2	US-09-763-620-8	Sequence 8, Appl1
273	33	51.6	96	1	US-08-608-241-6	Sequence 6, Appl1	346	33	51.6	444	2	US-09-248-796A-22920	Sequence 22920, A
274	33	51.6	96	1	US-08-922-182-6	Sequence 6, Appl1	347	33	51.6	448	2	US-09-489-039A-11588	Sequence 11588, A
275	33	51.6	96	1	US-08-919-953-6	Sequence 6, Appl1	348	33	51.6	503	2	US-09-393-858-14	Sequence 14, Appl
276	33	51.6	101	2	US-09-475-515-86	Sequence 86, Appl1	349	33	51.6	503	2	US-10-190-279-14	Sequence 14, Appl
277	33	51.6	101	2	US-10-290-579A-219	Sequence 219, App	350	33	51.6	504	2	US-09-134-001C-2980	Sequence 2980, Ap
278	33	51.6	101	2	US-10-290-579A-224	Sequence 224, App	351	33	51.6	505	2	US-09-949-016-9779	Sequence 9779, Ap
279	33	51.6	102	2	US-09-475-515-90	Sequence 90, Appl	352	33	51.6	506	2	US-09-270-767-46607	Sequence 46607, A
280	33	51.6	115	2	US-09-732-210-429	Sequence 429, App	353	33	51.6	510	2	US-09-134-001C-4541	Sequence 4541, Ap
281	33	51.6	118	2	US-08-301-162-10	Sequence 10, Appl	354	33	51.6	519	2	US-09-949-016-7883	Sequence 7883, Ap
282	33	51.6	118	2	US-09-461-240-10	Sequence 10, Appl	355	33	51.6	526	2	US-08-895-590-5	Sequence 5, Appl1
283	33	51.6	118	2	US-09-968-927-10	Sequence 10, Appl	356	33	51.6	545	2	US-09-248-796A-14131	Sequence 14131, A
284	33	51.6	123	2	US-09-471-276-1413	Sequence 1413, Ap	357	33	51.6	574	2	US-09-702-953B-4	Sequence 4, Appl1
285	33	51.6	158	2	US-09-248-796A-14845	Sequence 14845, A	358	33	51.6	582	2	US-09-976-594-733	Sequence 733, App
286	33	51.6	175	2	US-09-222-939-5	Sequence 5, Appl1	359	33	51.6	587	2	US-09-270-767-39651	Sequence 39651, A
287	33	51.6	175	2	US-10-023-528-5	Sequence 5, Appl1	360	33	51.6	587	2	US-09-270-767-54868	Sequence 54868, A
288	33	51.6	175	2	US-09-583-110-1089	Sequence 5, Appl1	361	33	51.6	627	2	US-09-702-953B-3	Sequence 3, Appl1
289	33	51.6	180	2	US-10-423-330-5	Sequence 5, Appl1	362	33	51.6	630	1	US-08-487-890A-113	Sequence 113, App
290	33	51.6	180	2	US-09-605-703B-1658	Sequence 1658, Ap	363	33	51.6	630	1	US-08-478-435-113	Sequence 113, App
291	33	51.6	187	2	US-09-252-991A-30518	Sequence 30518, A	364	33	51.6	630	1	US-08-337-483-113	Sequence 113, App
292	33	51.6	187	2	US-09-107-433-4170	Sequence 4170, Ap	365	33	51.6	630	1	US-08-478-373-113	Sequence 113, App
293	33	51.6	207	2	US-09-270-767-42786	Sequence 42786, A	366	33	51.6	630	2	US-08-474-671-113	Sequence 113, App
294	33	51.6	220	2	US-09-270-767-45126	Sequence 45126, A	367	33	51.6	630	2	US-08-483-578A-113	Sequence 113, App
295	33	51.6	225	2	US-08-924-747-16	Sequence 16, Appl	368	33	51.6	630	2	US-08-897-438-113	Sequence 113, App
296	33	51.6	225	2	US-09-247-373B-16	Sequence 16, Appl	369	33	51.6	630	2	US-08-637-654-113	Sequence 113, App
297	33	51.6	225	2	US-09-296-715-16	Sequence 16, Appl	370	33	51.6	630	2	US-08-649-518-113	Sequence 113, App
298	33	51.6	228	2	US-09-702-953B-10	Sequence 10, Appl	371	33	51.6	640	2	US-09-949-016-11204	Sequence 11204, A
299	33	51.6	235	2	US-09-902-540-15645	Sequence 15645, A	372	33	51.6	647	2	US-09-702-953B-2	Sequence 2, Appl1
300	33	51.6	235	2	US-10-166-653-38	Sequence 38, Appl	373	33	51.6	657	2	US-09-949-016-6320	Sequence 6320, Ap
301	33	51.6	276	2	US-09-583-110-4757	Sequence 4757, App	374	33	51.6	656	2	US-09-107-532A-5205	Sequence 5205, Ap
302	33	51.6	276	2	US-09-769-787-134	Sequence 134, App	375	33	51.6	733	2	US-09-192-983-6	Sequence 6, Appl1
303	33	51.6	285	2	US-09-107-433-4287	Sequence 4287, Ap	376	33	51.6	818	2	US-09-134-000C-6355	Sequence 6355, Ap
304	33	51.6	319	2	US-09-270-767-44284	Sequence 44284, A	377	33	51.6	855	2	US-09-074-579-5	Sequence 5, Appl1
305	33	51.6	319	2	US-09-270-767-44343	Sequence 44343, A	378	33	51.6	855	2	US-09-388-774-5	Sequence 5, Appl1
306	33	51.6	319	2	US-09-248-796A-15068	Sequence 15068, A	379	33	51.6	891	2	US-09-252-991A-31941	Sequence 31941, A
307	33	51.6	333	2	US-09-170-496D-8	Sequence 8, Appl1	380	33	51.6	920	2	US-09-763-620-35	Sequence 35, Appl
308	33	51.6	333	2	US-09-170-496D-168	Sequence 168, App	381	33	51.6	937	1	US-08-253-915A-31	Sequence 31, Appl
309	33	51.6	333	2	US-09-826-509-509	Sequence 509, App	382	33	51.6	937	2	US-09-538-092-1092	Sequence 1092, Ap
310	33	51.6	337	1	US-08-118-270-33	Sequence 33, Appl	383	33	51.6	937	2	US-09-949-002-374	Sequence 374, App
311	33	51.6	337	4	PCT-US93-08528-33	Sequence 33, Appl	384	33	51.6	950	2	US-09-409-004-2	Sequence 2, Appl1
312	33	51.6	342	4	US-09-605-703B-1526	Sequence 1526, App	385	33	51.6	959	2	US-09-538-092-1091	Sequence 1091, Ap
313	33	51.6	342	2	US-09-605-703B-1528	Sequence 1528, Ap	386	33	51.6	1003	2	US-09-252-991A-16798	Sequence 16798, A
314	33	51.6	348	2	US-08-875-540-13	Sequence 13, Appl	387	33	51.6	1003	2	US-09-198-452A-117	Sequence 11, Appl
315	33	51.6	348	2	US-09-171-456-17	Sequence 17, Appl	388	33	51.6	1003	2	US-09-438-185A-8	Sequence 8, Appl1
316	33	51.6	348	2	US-09-473-634-13	Sequence 13, Appl	389	33	51.6	1008	2	US-09-081-385-151	Sequence 151, App
317	33	51.6	359	1	US-08-467-568-13	Sequence 13, Appl	390	33	51.6	1038	2	US-09-752-639-151	Sequence 151, App
318	33	51.6	359	1	US-08-748-485-4	Sequence 4, Appl1	391	33	51.6	1038	2	US-09-712-813-151	Sequence 151, App
319	33	51.6	359	1	US-08-103-170-2	Sequence 2, Appl1	392	33	51.6	1038	2	US-09-700-354A-151	Sequence 151, App

393	33	51.6	1049	2	US-08-772-270A-11	Sequence 11, Appl	466	32	50.0	225	2	US-09-396-715-10	Sequence 10, Appl
394	33	51.6	1187	1	US-08-320-559-28	Sequence 28, Appl	467	32	50.0	225	2	US-09-302-540-11468	Sequence 11468, A
395	33	51.6	1187	1	US-08-545-860D-28	Sequence 28, Appl	468	32	50.0	226	2	US-09-248-796A-16182	Sequence 16182, A
396	33	51.6	1187	4	PCT-US94-04496-28	Sequence 28, Appl	469	32	50.0	229	2	US-09-489-039A-10340	Sequence 10340, A
397	33	51.6	1192	2	US-09-902-540-14526	Sequence 14526, A	470	32	50.0	240	4	PCT-US93-00227-4	Sequence 4, Appl1
398	33	51.6	1210	1	US-08-330-559-26	Sequence 26, Appl	471	32	50.0	253	3	US-09-581-001B-8	Sequence 8, Appl1
399	33	51.6	1210	2	US-08-545-860D-26	Sequence 26, Appl	472	32	50.0	258	2	US-09-949-016-9714	Sequence 9714, Ap
400	33	51.6	1210	2	US-09-538-092-1179	Sequence 1179, Ap	473	32	50.0	259	2	US-09-370-838-58	Sequence 58, Appl1
401	33	51.6	1210	4	PCT-US94-04496-26	Sequence 26, Appl	474	32	50.0	259	2	US-09-854-133-58	Sequence 58, Appl1
402	33	51.6	1244	4	US-09-248-796A-14563	Sequence 14563, A	475	32	50.0	260	2	US-09-602-178A-192	Sequence 192, Ap
403	33	51.6	1244	4	PCT-US93-10500-2	Sequence 2, Appl1	476	32	50.0	260	2	US-09-605-703B-2394	Sequence 2394, Ap
404	33	51.6	1256	4	US-09-248-796A-18057	Sequence 18057, A	477	32	50.0	269	2	US-09-777-558-17	Sequence 17, App
405	33	51.6	1308	1	US-08-996-644-2	Sequence 2, Appl1	478	32	50.0	282	2	US-09-830-230A-612	Sequence 612, App
406	33	51.6	1308	2	US-09-352-552-2	Sequence 2, Appl1	479	32	50.0	283	2	US-09-824-378A-10	Sequence 10, Appl1
407	33	51.6	1597	2	US-09-964-956-81	Sequence 41, Appl	480	32	50.0	286	2	US-09-830-230A-720	Sequence 720, App
408	33	51.6	1597	2	US-10-017-216-6	Sequence 6, Appl1	481	32	50.0	290	2	US-09-543-681A-7488	Sequence 7488, Ap
409	33	51.6	1641	2	US-09-964-956-40	Sequence 40, Appl	482	32	50.0	288	2	US-09-470-767-37644	Sequence 37644, A
410	33	51.6	1641	2	US-10-017-216-5	Sequence 5, Appl1	483	32	50.0	288	2	US-09-370-767-52861	Sequence 52861, A
411	33	51.6	1895	1	US-08-619-554-4	Sequence 4, Appl1	484	32	50.0	302	2	US-09-830-230A-611	Sequence 611, App
412	33	51.6	1895	2	US-09-487-558B-136	Sequence 136, App	485	32	50.0	307	2	US-08-506-296B-63	Sequence 63, App
413	33	51.6	1958	2	US-10-028-946-4	Sequence 4, Appl1	486	32	50.0	310	2	US-09-302-540-10755	Sequence 10755, A
414	33	51.6	2053	2	US-09-964-956-11	Sequence 11, Appl	487	32	50.0	315	2	US-09-830-230A-719	Sequence 719, App
415	33	51.6	2054	2	US-10-028-946-2	Sequence 2, Appl1	488	32	50.0	330	2	US-09-949-016-10187	Sequence 10187, A
416	33	51.6	2055	2	US-10-017-216-4	Sequence 4, Appl1	489	32	50.0	330	2	US-09-370-767-43289	Sequence 43289, A
417	33	51.6	2065	2	US-09-964-956-9	Sequence 9, Appl1	490	32	50.0	336	2	US-09-684-938-179	Sequence 179, App
418	33	51.6	2119	2	US-09-583-110-4893	Sequence 4893, Ap	491	32	50.0	336	2	US-09-308-825A-119	Sequence 179, App
419	33	51.6	2123	2	US-09-107-433-3728	Sequence 3728, Ap	492	32	50.0	336	2	US-09-940-244-165	Sequence 165, App
420	33	51.6	3898	1	US-08-876-991-2	Sequence 2, Appl1	493	32	50.0	336	2	US-09-777-430C-30	Sequence 30, Appl1
421	33	51.6	3898	1	US-09-059-853-2	Sequence 2, Appl1	494	32	50.0	336	2	US-09-381-212-165	Sequence 165, App
422	33	51.6	3898	2	US-08-750-717-2	Sequence 2, Appl1	495	32	50.0	336	2	US-09-613-601A-165	Sequence 165, App
423	33	50.0	12	1	US-08-363-276B-13	Sequence 13, Appl	496	32	50.0	338	2	US-09-602-777A-262	Sequence 262, App
424	32	50.0	12	2	US-08-817-811-24	Sequence 24, Appl	497	32	50.0	333	1	US-08-599-171A-28	Sequence 28, Appl1
425	32	50.0	12	4	US-08-755-034-13	Sequence 13, Appl	498	32	50.0	333	1	US-08-646-590B-28	Sequence 28, Appl1
426	32	50.0	12	4	PCT-US95-16718-13	Sequence 13, Appl	499	32	50.0	333	1	US-09-069-226-28	Sequence 28, Appl1
427	32	50.0	12	4	PCT-US96-08895-13	Sequence 13, Appl	500	32	50.0	343	2	US-09-412-184-28	Sequence 28, Appl1
428	32	50.0	53	2	US-09-621-976-7451	Sequence 7451, Ap	501	32	50.0	361	2	US-09-790-179-2	Sequence 2, Appl1
429	32	50.0	58	2	US-09-621-976-5934	Sequence 5934, Ap	502	32	50.0	361	2	US-10-165-800-2	Sequence 2, Appl1
430	32	50.0	65	2	US-09-107-433-3149	Sequence 3149, Ap	503	32	50.0	363	2	US-09-755-665-58	Sequence 58, Appl1
431	32	50.0	67	2	US-10-002-344A-228	Sequence 228, App	504	32	50.0	368	2	US-09-248-796A-19026	Sequence 19026, A
432	32	50.0	71	6	5187079-2	Patent No. 5187079	505	32	50.0	375	2	US-09-134-000-8	Sequence 8, Appl1
433	32	50.0	73	2	US-10-125-258-115	Sequence 115, App	506	32	50.0	383	2	US-09-710-001C-3429	Sequence 3429, Ap
434	32	50.0	96	2	US-10-125-258-113	Sequence 113, App	507	32	50.0	383	2	US-10-057-531A-5	Sequence 5, Appl1
435	32	50.0	98	2	US-09-248-796A-23965	Sequence 23965, A	508	32	50.0	384	2	US-09-107-532A-518	Sequence 518, Ap
436	32	50.0	99	2	US-09-583-110-4742	Sequence 4742, Ap	509	32	50.0	384	2	US-10-094-944-19	Sequence 19, Appl
437	32	50.0	101	2	US-10-290-579A-220	Sequence 220, App	510	32	50.0	385	2	US-09-270-767-44110	Sequence 44110, A
438	32	50.0	111	2	US-09-270-767-58632	Sequence 58632, A	511	32	50.0	389	1	US-08-605-106-13	Sequence 13, Appl1
439	32	50.0	113	2	US-09-134-000C-5082	Sequence 5082, Ap	512	32	50.0	391	2	US-09-198-452A-921	Sequence 921, App
440	32	50.0	113	2	US-09-248-796A-17728	Sequence 17728, A	513	32	50.0	391	2	US-09-438-185A-855	Sequence 855, App
441	32	50.0	116	2	US-09-732-210-691	Sequence 691, App	514	32	50.0	391	2	US-10-057-531A-7	Sequence 7, Appl1
442	32	50.0	121	2	US-09-732-210-109	Sequence 109, App	515	32	50.0	393	2	US-10-057-531A-3	Sequence 3, Appl1
443	32	50.0	133	2	US-09-513-999C-4968	Sequence 4968, Ap	516	32	50.0	394	2	US-08-195-705-2	Sequence 2, Appl1
444	32	50.0	136	2	US-09-252-991A-21341	Sequence 21341, A	517	32	50.0	394	2	US-08-195-705-2	Sequence 2, Appl1
445	32	50.0	147	2	US-09-543-681A-5412	Sequence 5412, Ap	518	32	50.0	394	2	US-09-500-376-2	Sequence 2, Appl1
446	32	50.0	152	2	US-09-777-558-6	Sequence 6, Appl1	519	32	50.0	394	2	US-09-500-376-3	Sequence 3, Appl1
447	32	50.0	157	2	US-09-107-532A-4454	Sequence 4454, Ap	520	32	50.0	402	2	US-09-500-376-16	Sequence 16, Appl
448	32	50.0	172	2	US-09-777-558-114	Sequence 11, Appl	521	32	50.0	411	2	US-10-104-047-3452	Sequence 3452, App
449	32	50.0	174	2	US-09-270-767-59529	Sequence 59529, A	522	32	50.0	418	2	US-09-252-991A-25075	Sequence 25075, A
450	32	50.0	183	2	US-09-777-558-20	Sequence 20, Appl	523	32	50.0	424	2	US-09-949-016-6159	Sequence 6159, Ap
451	32	50.0	185	2	US-09-949-016-6762	Sequence 6762, A	524	32	50.0	431	2	US-10-057-531A-8	Sequence 8, Appl1
452	32	50.0	187	6	5196523-13	Patent No. 5196523	525	32	50.0	432	2	US-09-949-016-8060	Sequence 8060, Ap
453	32	50.0	191	2	US-09-252-991A-18479	Sequence 18479, A	526	32	50.0	432	2	US-09-949-016-8081	Sequence 8061, Ap
454	32	50.0	198	2	US-08-529-055-36	Sequence 36, Appl	527	32	50.0	441	2	US-09-949-016-11475	Sequence 11475, A
455	32	50.0	199	2	US-09-581-001B-7	Sequence 7, Appl1	528	32	50.0	456	2	US-09-902-540-11127	Sequence 1127, A
456	32	50.0	210	2	US-09-853-450-36	Sequence 36, Appl	529	32	50.0	472	1	US-08-194-338-6	Sequence 6, Appl1
457	32	50.0	216	1	US-08-455-543A-43	Sequence 43, Appl	530	32	50.0	473	2	US-09-538-092-1353	Sequence 1353, App
458	32	50.0	216	1	US-08-223-105C-43	Sequence 43, Appl	531	32	50.0	478	1	US-07-745-206A-19	Sequence 19, Appl1
459	32	50.0	216	1	US-08-149-097D-39	Sequence 39, Appl	532	32	50.0	478	1	US-08-455-543A-40	Sequence 40, Appl1
460	32	50.0	219	1	US-08-455-543A-44	Sequence 44, Appl	533	32	50.0	478	1	US-08-423-305C-40	Sequence 40, Appl1
461	32	50.0	219	1	US-08-223-105C-44	Sequence 44, Appl	534	32	50.0	478	1	US-08-149-097D-32	Sequence 32, Appl1
462	32	50.0	219	1	US-08-149-097D-40	Sequence 40, Appl	535	32	50.0	478	1	US-08-311-363-19	Sequence 19, Appl1
463	32	50.0	223	2	US-09-270-767-43083	Sequence 43083, A	536	32	50.0	478	1	US-09-949-016-5982	Sequence 5982, Ap
464	32	50.0	225	2	US-08-924-747-10	Sequence 10, Appl	537	32	50.0	479	2	US-08-149-097D-38	Sequence 38, Appl1
465	32	50.0	225	2	US-09-247-373B-10	Sequence 10, Appl	538	32	50.0	480	2	US-09-248-796A-14771	Sequence 14771, A

539	32	50.0	482	2	US-09-538-092-1345	Sequence 1345, Ap	612	32	50.0	808	2	US-08-971-188-12	Sequence 12, Appl
540	32	50.0	483	2	US-09-902-540-10828	Sequence 10828, A	613	32	50.0	808	2	US-09-402-936-12	Sequence 12, Appl
541	32	50.0	483	2	US-09-770-509-18	Sequence 1, Appl	614	32	50.0	812	2	US-10-104-047-2027	Sequence 2027, Ap
542	32	50.0	493	2	US-09-949-016-7613	Sequence 7613, Ap	615	32	50.0	832	2	US-09-248-796A-18967	Sequence 18967, A
543	32	50.0	494	2	US-09-949-016-9835	Sequence 9836, Ap	616	32	50.0	845	2	US-09-198-452A-458	Sequence 458, App
544	32	50.0	502	2	US-09-902-540-15536	Sequence 15536, A	617	32	50.0	848	1	US-08-045-806-4	Sequence 4, Appl
545	32	50.0	514	2	US-08-925-230-7	Sequence 7, Appl	618	32	50.0	848	1	US-08-366-051B-7	Sequence 4, Appl
546	32	50.0	514	2	US-08-925-230-8	Sequence 8, Appl	619	32	50.0	849	1	US-09-949-016-7582	Sequence 7582, Ap
547	32	50.0	514	2	US-09-712-372-7	Sequence 7, Appl	620	32	50.0	873	2	US-09-543-681A-7315	Sequence 7315, Ap
548	32	50.0	514	2	US-09-712-372-8	Sequence 8, Appl	621	32	50.0	883	2	US-09-664-958-10	Sequence 10, Appl
549	32	50.0	514	2	US-09-538-092-913	Sequence 913, App	622	32	50.0	901	2	US-09-134-001C-5389	Sequence 5389, Ap
550	32	50.0	518	2	US-09-625-972-23	Sequence 23, Appl	623	32	50.0	901	2	US-09-710-279-342	Sequence 342, App
551	32	50.0	523	1	US-08-455-543A-42	Sequence 42, Appl	624	32	50.0	901	2	US-09-949-016-11545	Sequence 11545, A
552	32	50.0	523	1	US-08-223-305C-42	Sequence 42, Appl	625	32	50.0	912	2	US-09-664-958-8	Sequence 8, Appl
553	32	50.0	524	1	US-08-336-257A-6	Sequence 6, Appl	626	32	50.0	914	2	US-09-134-001C-5208	Sequence 5208, Ap
554	32	50.0	524	2	US-09-252-991A-19294	Sequence 19294, A	627	32	50.0	917	2	US-09-248-796A-18960	Sequence 18960, A
555	32	50.0	524	6	5386025-4	Patent No. 5386025	628	32	50.0	927	2	US-09-328-157-7922	Sequence 7922, Ap
556	32	50.0	525	2	US-10-002-344A-201	Sequence 201, App	629	32	50.0	963	1	US-08-537-002A-3	Sequence 3, Appl
557	32	50.0	545	2	US-08-506-296B-75	Sequence 75, Appl	630	32	50.0	963	2	US-08-863-010-3	Sequence 3, Appl
558	32	50.0	546	2	US-09-489-039A-9627	Sequence 9627, Ap	631	32	50.0	963	2	US-09-024-429-3	Sequence 3, Appl
559	32	50.0	546	2	US-10-057-531A-1	Sequence 1, Appl	632	32	50.0	966	2	US-09-252-991A-27018	Sequence 27018, A
560	32	50.0	554	2	US-08-895-590-9	Sequence 9, Appl	633	32	50.0	997	1	US-08-324-429-3	Sequence 50, Appl
561	32	50.0	564	2	US-09-107-532A-6970	Sequence 6970, Ap	634	32	50.0	997	1	US-08-384-616-50	Sequence 50, Appl
562	32	50.0	568	2	US-09-902-540-12891	Sequence 12891, A	635	32	50.0	997	1	US-08-304-686A-50	Sequence 50, Appl
563	32	50.0	573	2	US-09-328-352-4675	Sequence 4675, Ap	636	32	50.0	997	2	US-09-315-850-50	Sequence 24, Appl
564	32	50.0	576	2	US-09-541-990A-1	Sequence 1, Appl	637	32	50.0	1031	2	US-09-914-259-24	Sequence 2, Appl
565	32	50.0	591	2	US-08-952-981A-1	Sequence 1, Appl	638	32	50.0	1031	1	US-08-254-498-9	Sequence 9, Appl
566	32	50.0	591	2	US-09-720-095A-2	Sequence 2, Appl	639	32	50.0	1055	2	US-09-710-279-3154	Sequence 3154, Ap
567	32	50.0	593	2	US-09-597-877-12	Sequence 12, Appl	640	32	50.0	1100	2	US-09-328-303-9	Sequence 9, Appl
568	32	50.0	593	2	US-09-597-877-23	Sequence 23, Appl	641	32	50.0	1150	2	US-09-946-239-9	Sequence 9, Appl
569	32	50.0	598	1	US-08-455-543A-41	Sequence 41, Appl	642	32	50.0	1201	2	US-09-098-901-2	Sequence 2, Appl
570	32	50.0	598	1	US-08-223-305C-41	Sequence 41, Appl	643	32	50.0	1268	2	US-08-506-296B-28	Sequence 28, Appl
571	32	50.0	598	1	US-08-149-097D-33	Sequence 33, Appl	644	32	50.0	1268	2	US-09-538-092-1235	Sequence 1235, Ap
572	32	50.0	605	2	US-08-714-741-46	Sequence 46, Appl	645	32	50.0	1279	2	US-09-710-279-3188	Sequence 3188, Ap
573	32	50.0	607	2	US-09-949-016-11614	Sequence 11614, A	646	32	50.0	1284	2	US-09-343-494-9	Sequence 9, Appl
574	32	50.0	611	2	US-09-107-532A-4988	Sequence 4988, Ap	647	32	50.0	1284	2	US-09-358-583C-11	Sequence 11, Appl
575	32	50.0	621	2	US-09-898-297-1	Sequence 1, Appl	648	32	50.0	1284	2	US-10-160-224-9	Sequence 9, Appl
576	32	50.0	621	2	US-09-995-099-1	Sequence 1, Appl	649	32	50.0	1290	2	US-09-107-433-4339	Sequence 4399, Ap
577	32	50.0	621	2	US-10-238-282-1	Sequence 1, Appl	650	32	50.0	1297	2	US-09-328-352-6373	Sequence 6373, Ap
578	32	50.0	621	2	US-10-198-259A-1	Sequence 1, Appl	651	32	50.0	1303	2	US-09-583-110-5037	Sequence 5037, Ap
579	32	50.0	623	2	US-08-714-741-87	Sequence 47, Appl	652	32	50.0	1388	1	US-08-685-576-1	Sequence 1, Appl
580	32	50.0	623	2	US-09-618-425-13	Sequence 13, Appl	653	32	50.0	1388	1	US-08-685-576-4	Sequence 4, Appl
581	32	50.0	626	2	US-08-971-188-10	Sequence 10, Appl	654	32	50.0	1388	2	US-08-885-576-6	Sequence 6, Appl
582	32	50.0	626	2	US-09-374-454-21	Sequence 21, Appl	655	32	50.0	1388	2	US-09-976-594-296	Sequence 296, App
583	32	50.0	626	2	US-09-248-796A-27023	Sequence 27023, A	656	32	50.0	1388	1	US-08-750-532-9	Sequence 1955, A
584	32	50.0	626	2	US-09-402-936-10	Sequence 10, Appl	657	32	50.0	1388	2	US-08-894-818B-8	Sequence 8, Appl
585	32	50.0	626	2	US-10-104-047-1199	Sequence 2199, Ap	658	32	50.0	1388	2	US-09-445-472-6	Sequence 6, Appl
586	32	50.0	644	1	US-09-710-279-1436	Sequence 1436, Ap	659	32	50.0	1388	2	US-10-090-624-6	Sequence 6, Appl
587	32	50.0	654	1	US-08-441-139-11	Sequence 11, Appl	660	32	50.0	1398	2	US-09-841-553-8	Sequence 8, Appl
588	32	50.0	654	2	US-09-919-172-54	Sequence 54, Appl	661	32	50.0	1431	2	US-09-902-540-10614	Sequence 10614, A
589	32	50.0	654	2	US-09-919-039-160	Sequence 260, App	662	32	50.0	1487	2	US-09-489-039A-12113	Sequence 12113, A
590	32	50.0	658	2	US-08-895-590-10	Sequence 10, Appl	663	32	50.0	1566	1	US-08-687-956A-23	Sequence 23, Appl
591	32	50.0	681	2	US-09-328-352-5666	Sequence 5666, Ap	664	32	50.0	1940	2	US-09-538-092-901	Sequence 901, App
592	32	50.0	689	2	US-09-134-000C-4499	Sequence 4499, Ap	665	32	50.0	1963	2	US-09-949-016-8888	Sequence 8888, Ap
593	32	50.0	702	2	US-09-328-352-8176	Sequence 8176, Ap	666	32	50.0	1965	2	US-09-539-601-9	Sequence 9, Appl
594	32	50.0	708	2	US-09-602-787A-314	Sequence 314, App	667	32	50.0	1985	2	US-09-539-601-12	Sequence 12, Appl
595	32	50.0	710	2	US-09-107-532A-5067	Sequence 5067, Ap	668	32	50.0	1985	2	US-09-539-601-18	Sequence 18, Appl
596	32	50.0	712	1	US-08-468-576B-17	Sequence 17, Appl	669	32	50.0	1985	2	US-09-539-601-24	Sequence 24, Appl
597	32	50.0	712	1	US-08-468-579B-17	Sequence 17, Appl	670	32	50.0	1985	2	US-09-539-601-30	Sequence 30, Appl
598	32	50.0	712	1	US-08-468-579B-17	Sequence 17, Appl	671	32	50.0	1985	2	US-10-259-275-42	Sequence 42, Appl
599	32	50.0	713	2	US-09-602-787A-312	Sequence 312, App	672	32	50.0	2201	2	US-08-952-981A-2	Sequence 2, Appl
600	32	50.0	729	2	US-09-248-796A-17702	Sequence 17702, A	673	32	50.0	2201	2	US-09-539-601-6	Sequence 6, Appl
601	32	50.0	730	2	US-09-398-865A-2	Sequence 2, Appl	674	32	50.0	2201	2	US-09-539-601-15	Sequence 15, Appl
602	32	50.0	730	2	US-09-710-714-2	Sequence 2, Appl	675	32	50.0	2201	2	US-10-029-907-3	Sequence 3, Appl
603	32	50.0	733	2	US-09-902-540-16379	Sequence 16379, A	676	32	50.0	2201	2	US-10-309-561A-3	Sequence 3, Appl
604	32	50.0	781	2	US-09-486-147-3	Sequence 3, Appl	677	32	50.0	2547	2	US-09-058-489-35	Sequence 35, Appl
605	32	50.0	781	2	US-09-949-016-5908	Sequence 5908, Ap	678	32	50.0	2547	2	US-09-328-092-11374	Sequence 1374, Ap
606	32	50.0	803	2	US-09-154-750A-85	Sequence 85, Appl	679	32	50.0	2650	1	US-08-324-977-32	Sequence 32, Appl
607	32	50.0	803	2	US-09-665-479A-12	Sequence 12, Appl	680	32	50.0	2650	1	US-08-384-616-32	Sequence 32, Appl
608	32	50.0	803	2	US-09-949-016-6383	Sequence 6383, Ap	681	32	50.0	2650	1	US-08-904-686A-32	Sequence 32, Appl
609	32	50.0	803	2	US-09-949-016-11422	Sequence 11422, A	682	32	50.0	2650	2	US-09-315-850-32	Sequence 32, Appl
610	32	50.0	805	1	US-08-045-806-2	Sequence 2, Appl	683	32	50.0	2651	1	US-08-324-977-36	Sequence 36, Appl
611	32	50.0	805	1	US-08-366-051B-2	Sequence 2, Appl	684	32	50.0	2651	1	US-08-384-616-36	Sequence 36, Appl

685	32	50.0	2621	1	US-08-904-686A-36	Sequence 36, App1	758	31	48.4	87	2	US-09-732-210-1526	Sequence 1526, Ap
686	32	50.0	2621	2	US-09-315-850-36	Sequence 36, App1	759	31	48.4	91	2	US-09-107-433-3651	Sequence 3651, Ap
687	32	50.0	2922	2	US-09-519-181-2	Sequence 2, App1	760	31	48.4	94	2	US-09-248-796A-22921	Sequence 22921, A
688	32	50.0	2985	2	US-10-259-275-40	Sequence 40, App1	761	31	48.4	95	2	US-09-153-447-31	Sequence 31, App1
689	32	50.0	3010	1	US-08-334-977-2	Sequence 2, App1	762	31	48.4	101	2	US-09-248-796A-17689	Sequence 17689, A
690	32	50.0	3010	1	US-08-334-977-14	Sequence 14, App1	763	31	48.4	102	2	US-09-621-976-5518	Sequence 5518, Ap
691	32	50.0	3010	1	US-08-384-616-2	Sequence 2, App1	764	31	48.4	110	2	US-09-902-540-14568	Sequence 14568, A
692	32	50.0	3010	1	US-08-384-616-14	Sequence 14, App1	765	31	48.4	117	2	US-09-134-000C-6338	Sequence 6338, Ap
693	32	50.0	3010	1	US-08-904-686A-2	Sequence 2, App1	766	31	48.4	118	2	US-09-513-999C-4350	Sequence 4350, Ap
694	32	50.0	3010	1	US-08-904-686A-14	Sequence 14, App1	767	31	48.4	126	2	US-09-732-210-1698	Sequence 1698, Ap
695	32	50.0	3010	2	US-09-014-416-3	Sequence 3, App1	768	31	48.4	129	2	US-09-716-865-16	Sequence 16, App1
696	32	50.0	3010	2	US-09-315-850-3	Sequence 2, App1	769	31	48.4	131	2	US-08-858-207A-387	Sequence 387, App
697	32	50.0	3010	2	US-09-315-850-14	Sequence 14, App1	770	31	48.4	131	2	US-09-583-110-2895	Sequence 2895, Ap
698	32	50.0	3010	2	US-09-539-601-3	Sequence 3, App1	771	31	48.4	134	2	US-09-732-210-804	Sequence 804, App
699	32	50.0	3010	2	US-09-539-601-21	Sequence 21, App1	772	31	48.4	136	2	US-09-684-708A-13	Sequence 13, App1
700	32	50.0	3010	2	US-09-539-601-27	Sequence 27, App1	773	31	48.4	140	2	US-09-621-976-3952	Sequence 3952, Ap
701	32	50.0	3010	2	US-09-539-601-33	Sequence 33, App1	774	31	48.4	151	2	US-09-538-092-774	Sequence 774, App
702	32	50.0	3118	2	US-09-579-181-1	Sequence 1, App1	775	31	48.4	155	2	US-09-640-211A-2172	Sequence 2172, Ap
703	32	50.0	3666	2	US-09-134-001C-5080	Sequence 5080, Ap	776	31	48.4	156	2	US-09-248-796A-20037	Sequence 20037, A
704	32	50.0	8991	2	US-08-714-741-32	Sequence 32, App1	777	31	48.4	158	2	US-09-270-767-38903	Sequence 38903, A
705	32	50.0	10182	2	US-09-134-001C-3159	Sequence 3159, Ap	778	31	48.4	158	2	US-09-270-767-54120	Sequence 54120, A
706	31.5	49.2	185	2	US-09-583-110-5154	Sequence 5154, Ap	779	31	48.4	159	2	US-09-328-352-5713	Sequence 5713, Ap
707	31.5	49.2	194	2	US-09-107-433-3648	Sequence 3648, Ap	780	31	48.4	160	2	US-09-247-155-156	Sequence 156, App
708	31.5	49.2	233	2	US-09-270-767-44062	Sequence 44062, A	781	31	48.4	160	2	US-09-134-000C-6652	Sequence 6652, Ap
709	31.5	49.2	399	6	5474928-2	Patent No. 5474928	782	31	48.4	160	2	US-09-303-190-156	Sequence 156, App
710	31.5	49.2	409	2	US-09-564-5598-5	Sequence 5, App1	783	31	48.4	161	2	US-09-248-796A-16665	Sequence 16665, A
711	31.5	49.2	409	2	US-09-564-5598-6	Sequence 6, App1	784	31	48.4	161	2	US-09-946-528-8	Sequence 8, App1
712	31.5	49.2	409	2	US-09-564-5598-7	Sequence 7, App1	785	31	48.4	169	2	US-09-107-532A-6366	Sequence 6366, Ap
713	31.5	49.2	409	2	US-09-564-5598-8	Sequence 8, App1	786	31	48.4	171	2	US-09-270-767-39148	Sequence 39148, A
714	31.5	49.2	409	2	US-09-564-5598-9	Sequence 9, App1	787	31	48.4	171	2	US-09-270-767-54365	Sequence 54365, A
715	31.5	49.2	409	2	US-09-564-5598-10	Sequence 10, App1	788	31	48.4	173	2	US-09-270-767-58371	Sequence 58371, A
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717	31.5	49.2	410	2	US-09-723-546-1	Sequence 1, App1	790	31	48.4	178	2	US-09-583-110-4001	Sequence 4001, Ap
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719	31	48.4	28	1	US-08-436-7038-1	Sequence 1, App1	792	31	48.4	179	2	US-09-949-016-11484	Sequence 11484, A
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723	31	48.4	29	1	US-08-303-025-10	Sequence 10, App1	796	31	48.4	198	2	US-09-107-433-4068	Sequence 4068, Ap
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727	31	48.4	29	1	US-08-677-304-10	Sequence 10, App1	800	31	48.4	218	2	US-09-107-433-4157	Sequence 4157, Ap
728	31	48.4	29	1	US-08-677-304-11	Sequence 11, App1	801	31	48.4	226	2	US-09-902-540-9693	Sequence 9693, Ap
729	31	48.4	29	1	US-08-677-304-12	Sequence 12, App1	802	31	48.4	234	2	US-09-198-452A-241	Sequence 241, App
730	31	48.4	29	1	US-08-436-7038-3	Sequence 3, App1	803	31	48.4	234	2	US-09-438-185A-232	Sequence 232, App
731	31	48.4	29	1	US-08-436-7038-15	Sequence 15, App1	804	31	48.4	240	2	US-09-949-016-7275	Sequence 7275, Ap
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733	31	48.4	29	1	US-10-250-579A-113	Sequence 113, App	806	31	48.4	249	2	US-09-536-784-6	Sequence 6, App1
734	31	48.4	29	1	US-10-076-622-626	Sequence 626, App	807	31	48.4	249	2	US-09-765-271A-6	Sequence 6, App1
735	31	48.4	32	1	US-08-152-488-13	Sequence 13, App1	808	31	48.4	249	2	US-09-765-272A-6	Sequence 226, App
736	31	48.4	32	1	US-08-303-025-15	Sequence 15, App1	809	31	48.4	250	2	US-08-961-083-326	Sequence 226, App
737	31	48.4	32	1	US-08-677-304-13	Sequence 13, App1	810	31	48.4	250	2	US-09-536-784-226	Sequence 226, App
738	31	48.4	32	1	US-08-436-7038-2	Sequence 2, App1	811	31	48.4	250	2	US-09-765-271-226	Sequence 226, App
739	31	48.4	33	1	US-08-303-025-16	Sequence 16, App1	812	31	48.4	250	2	US-09-765-272A-226	Sequence 226, App
740	31	48.4	33	1	US-08-436-7038-4	Sequence 4, App1	813	31	48.4	255	2	US-10-104-047-3876	Sequence 3876, App
741	31	48.4	37	2	US-08-695-301A-11	Sequence 11, App1	814	31	48.4	262	2	US-09-987-107-31	Sequence 31, App1
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743	31	48.4	37	2	US-08-695-304C-10	Sequence 10, App1	816	31	48.4	266	2	US-09-583-110-5299	Sequence 5299, Ap
744	31	48.4	37	2	US-08-695-304C-11	Sequence 11, App1	817	31	48.4	266	2	US-09-769-787-165	Sequence 165, App
745	31	48.4	37	2	US-09-589-768-10	Sequence 10, App1	818	31	48.4	274	2	US-09-543-681A-5511	Sequence 5511, App
746	31	48.4	37	2	US-09-589-768-11	Sequence 11, App1	819	31	48.4	285	2	US-09-270-767-57104	Sequence 57104, A
747	31	48.4	37	2	US-09-594-845-10	Sequence 10, App1	820	31	48.4	284	2	US-09-270-767-41531	Sequence 41531, A
748	31	48.4	37	2	US-09-594-845-11	Sequence 11, App1	821	31	48.4	295	2	US-09-107-433-4157	Sequence 4127, Ap
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750	31	48.4	56	2	US-09-732-210-913	Sequence 913, App	823	31	48.4	307	2	US-09-352-991A-20828	Sequence 20828, A
751	31	48.4	60	2	US-09-513-999C-5917	Sequence 5917, App	824	31	48.4	307	2	US-09-502-540-13955	Sequence 13955, A
752	31	48.4	62	2	US-09-134-000C-5958	Sequence 5958, Ap	825	31	48.4	308	1	US-07-859-480-2	Sequence 2, App1
753	31	48.4	66	2	US-09-583-110-3521	Sequence 3521, Ap	826	31	48.4	309	2	US-09-583-110-5200	Sequence 2700, Ap
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755	31	48.4	81	2	US-09-101-544-9	Sequence 9, App1	828	31	48.4	313	2	US-09-949-016-10072	Sequence 10072, A
756	31	48.4	81	2	US-09-101-544-9	Sequence 9, App1	829	31	48.4	313	2	US-09-769-787-163	Sequence 163, App
757	31	48.4	85	2	US-09-640-211A-870	Sequence 870, App	830	31	48.4	320	2	US-09-134-000C-5021	Sequence 5021, Ap

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832	31	48.4	336	2	US-09-583-110-3957	Sequence 3957, Ap	905	31	48.4	434	2	US-08-232-246A-40	Sequence 40, Appl
833	31	48.4	337	2	US-09-107-433-2997	Sequence 2997, Ap	906	31	48.4	434	2	US-08-232-246A-46	Sequence 46, Appl
834	31	48.4	339	2	US-09-252-991A-22800	Sequence 22800, A	907	31	48.4	445	2	US-09-620-405B-473	Sequence 473, App
835	31	48.4	342	2	US-09-684-708A-27	Sequence 27, Appl	908	31	48.4	445	2	US-09-433-826B-473	Sequence 473, App
836	31	48.4	344	2	US-09-578-515-2	Sequence 2, Appl	909	31	48.4	445	2	US-09-604-287A-473	Sequence 473, App
837	31	48.4	348	1	US-08-933-750C-10	Sequence 10, Appl	910	31	48.4	445	2	US-09-834-759-473	Sequence 473, App
838	31	48.4	348	1	US-09-234-613-10	Sequence 10, Appl	911	31	48.4	445	2	US-09-583-110-3169	Sequence 3169, Ap
839	31	48.4	348	2	US-09-949-016-11586	Sequence 11586, A	912	31	48.4	445	2	US-09-590-751A-473	Sequence 473, App
840	31	48.4	351	2	US-10-000-489-50	Sequence 50, Appl	913	31	48.4	445	2	US-09-551-621-473	Sequence 473, App
841	31	48.4	359	1	US-07-996-772A-10	Sequence 10, Appl	914	31	48.4	445	2	US-09-551-621A-473	Sequence 473, App
842	31	48.4	359	1	US-08-748-485-3	Sequence 3, Appl	915	31	48.4	445	2	US-10-076-622-473	Sequence 473, App
843	31	48.4	359	1	US-08-103-170-4	Sequence 4, Appl	916	31	48.4	447	2	US-09-489-039A-8269	Sequence 8269, App
844	31	48.4	359	1	US-08-103-170-6	Sequence 6, Appl	917	31	48.4	451	2	US-09-270-767-45139	Sequence 45139, A
845	31	48.4	359	1	US-08-103-170-7	Sequence 7, Appl	918	31	48.4	451	2	US-09-107-433-4352	Sequence 4352, Ap
846	31	48.4	359	2	US-09-328-314-19	Sequence 19, Appl	919	31	48.4	466	2	US-10-104-047-2410	Sequence 2410, Ap
847	31	48.4	361	2	US-09-902-540-16708	Sequence 16708, A	920	31	48.4	470	2	US-10-104-047-2022	Sequence 2022, Ap
848	31	48.4	363	2	US-09-107-433-3109	Sequence 3109, Ap	921	31	48.4	474	2	US-09-354-221-2	Sequence 2, Appl
849	31	48.4	369	2	US-09-270-767-43042	Sequence 43042, A	922	31	48.4	474	2	US-10-360-101-242	Sequence 242, Appl
850	31	48.4	377	1	US-08-455-968B-3	Sequence 3, Appl	923	31	48.4	474	2	US-09-808-387-42	Sequence 42, Appl
851	31	48.4	378	1	US-08-823-516-138	Sequence 138, App	924	31	48.4	476	2	US-09-489-039A-8358	Sequence 8358, App
852	31	48.4	378	2	US-09-940-244-138	Sequence 138, App	925	31	48.4	487	2	US-09-949-016-10111	Sequence 10111, A
853	31	48.4	378	2	US-09-381-212-138	Sequence 138, App	926	31	48.4	496	2	US-08-881-784-2	Sequence 2, Appl
854	31	48.4	378	2	US-09-713-601A-138	Sequence 138, App	927	31	48.4	496	2	US-09-232-768-2	Sequence 2, Appl
855	31	48.4	383	2	US-09-710-279-386	Sequence 386, App	928	31	48.4	496	2	US-09-232-768-64	Sequence 64, Appl
856	31	48.4	390	2	US-09-252-991A-29855	Sequence 29855, A	929	31	48.4	496	2	US-09-232-768-66	Sequence 66, Appl
857	31	48.4	391	1	US-08-928-692-26	Sequence 26, Appl	930	31	48.4	502	2	US-10-214-269-16	Sequence 16, Appl
858	31	48.4	391	2	US-09-339-972-26	Sequence 26, Appl	931	31	48.4	505	2	US-09-248-796A-19253	Sequence 19253, A
859	31	48.4	393	2	US-09-712-363-264	Sequence 264, App	932	31	48.4	509	1	US-07-779-890-6	Sequence 6, Appl
860	31	48.4	394	1	US-08-553-488A-1	Sequence 1, Appl	933	31	48.4	509	1	US-07-779-890-6	Sequence 6, Appl
861	31	48.4	394	2	US-08-705-771-21	Sequence 21, Appl	934	31	48.4	509	1	US-09-008-962-3	Sequence 3, Appl
862	31	48.4	394	2	US-09-023-339-1	Sequence 1, Appl	935	31	48.4	509	1	US-08-675-507-3	Sequence 3, Appl
863	31	48.4	394	2	US-09-417-540-21	Sequence 21, Appl	936	31	48.4	509	2	US-09-213-205-3	Sequence 3, Appl
864	31	48.4	403	2	US-08-822-774-19	Sequence 19, Appl	937	31	48.4	509	2	US-08-733-360A-10	Sequence 10, Appl
865	31	48.4	403	2	US-09-632-711-19	Sequence 19, Appl	938	31	48.4	509	2	US-08-916-935-11	Sequence 11, Appl
866	31	48.4	403	2	US-09-632-703B-19	Sequence 19, Appl	939	31	48.4	509	4	PCT-US93-05640-6	Sequence 6, Appl
867	31	48.4	403	2	US-09-632-703B-19	Sequence 19, Appl	940	31	48.4	512	2	US-09-451-739H-16	Sequence 16, Appl
868	31	48.4	403	2	US-09-399-003-19	Sequence 19, Appl	941	31	48.4	512	2	US-09-602-362B-16	Sequence 16, Appl
869	31	48.4	405	2	US-09-107-532A-5405	Sequence 5405, Ap	942	31	48.4	514	2	US-09-949-016-9979	Sequence 9979, Ap
870	31	48.4	414	1	US-07-667-276A-4	Sequence 4, Appl	943	31	48.4	520	2	US-09-338-352-6592	Sequence 6592, Ap
871	31	48.4	414	1	US-08-002-202-13	Sequence 13, Appl	944	31	48.4	525	2	US-09-252-991A-26474	Sequence 26474, A
872	31	48.4	414	1	US-08-002-202-17	Sequence 17, Appl	945	31	48.4	526	2	US-10-104-047-3582	Sequence 3582, Ap
873	31	48.4	414	1	US-08-002-202-19	Sequence 19, Appl	946	31	48.4	527	2	US-09-538-092-925	Sequence 925, App
874	31	48.4	414	1	US-08-481-534-13	Sequence 13, Appl	947	31	48.4	531	2	US-09-134-001C-4920	Sequence 4920, Ap
875	31	48.4	414	2	US-08-481-534-17	Sequence 17, Appl	948	31	48.4	542	2	US-09-252-991A-19557	Sequence 19557, A
876	31	48.4	414	2	US-08-481-534-19	Sequence 19, Appl	949	31	48.4	546	2	US-10-104-047-2051	Sequence 2051, Ap
877	31	48.4	414	2	US-09-518-098B-19	Sequence 19, Appl	950	31	48.4	550	2	US-09-949-016-9758	Sequence 9758, Ap
878	31	48.4	415	2	US-09-252-991A-26443	Sequence 26443, A	951	31	48.4	554	2	US-09-252-991A-32632	Sequence 32632, A
879	31	48.4	418	1	US-08-121-714-3	Sequence 3, Appl	952	31	48.4	564	2	US-09-252-991A-24387	Sequence 24387, A
880	31	48.4	418	1	US-08-477-108A-3	Sequence 3, Appl	953	31	48.4	564	2	US-10-012-819-90	Sequence 90, Appl
881	31	48.4	418	1	US-08-477-112-3	Sequence 3, Appl	954	31	48.4	581	2	US-09-543-681A-6918	Sequence 6918, Ap
882	31	48.4	418	2	US-10-000-489-92	Sequence 92, Appl	955	31	48.4	589	2	US-09-438-185A-459	Sequence 459, App
883	31	48.4	418	4	PCT-US93-08322-3	Sequence 3, Appl	956	31	48.4	604	2	US-09-538-092-170	Sequence 170, App
884	31	48.4	418	4	US-09-134-001C-3034	Sequence 3034, Ap	957	31	48.4	611	2	US-09-370-807-2	Sequence 2, Appl
885	31	48.4	422	2	US-09-949-016-9582	Sequence 9582, Ap	958	31	48.4	612	1	US-08-344-695-2	Sequence 2, Appl
886	31	48.4	422	2	US-08-218-943-3	Sequence 3, Appl	959	31	48.4	612	1	US-09-921-259-2	Sequence 2, Appl
887	31	48.4	429	1	US-09-389-681-181	Sequence 181, App	960	31	48.4	618	2	US-10-104-047-3605	Sequence 3605, Ap
888	31	48.4	432	2	US-09-620-405B-181	Sequence 181, App	961	31	48.4	622	2	US-09-902-540-16096	Sequence 16096, A
889	31	48.4	432	2	US-09-333-338-181	Sequence 181, App	962	31	48.4	629	2	US-08-252-991A-17513	Sequence 17513, A
890	31	48.4	432	2	US-09-433-826B-181	Sequence 181, App	963	31	48.4	633	2	US-09-107-532A-3954	Sequence 3954, Ap
891	31	48.4	432	2	US-09-604-287A-181	Sequence 181, App	964	31	48.4	639	2	US-09-583-110-1021	Sequence 1021, Ap
892	31	48.4	432	2	US-09-285-480-181	Sequence 181, App	965	31	48.4	634	2	US-09-107-433-3905	Sequence 3905, Ap
893	31	48.4	432	2	US-09-834-759-181	Sequence 181, App	966	31	48.4	636	2	US-09-198-452A-489	Sequence 489, App
894	31	48.4	432	2	US-09-590-751A-181	Sequence 181, App	967	31	48.4	646	2	US-09-248-796A-20617	Sequence 20617, A
895	31	48.4	432	2	US-09-551-621-181	Sequence 181, App	968	31	48.4	649	2	US-09-358-092-1357	Sequence 1357, App
896	31	48.4	432	2	US-09-551-621A-181	Sequence 181, App	969	31	48.4	655	2	US-09-543-681A-7714	Sequence 7714, App
897	31	48.4	432	2	US-10-076-622-181	Sequence 181, App	970	31	48.4	657	2	US-09-902-540-10005	Sequence 10005, A
898	31	48.4	432	2	US-08-444-644-23	Sequence 23, Appl	971	31	48.4	657	2	US-09-370-368-7	Sequence 7, Appl
899	31	48.4	434	2	US-08-444-644-31	Sequence 31, Appl	972	31	48.4	657	2	US-09-252-991A-27358	Sequence 27358, A
900	31	48.4	434	2	US-08-444-644-40	Sequence 40, Appl	973	31	48.4	709	2	US-09-949-016-6809	Sequence 6809, Ap
901	31	48.4	434	2	US-08-444-644-46	Sequence 46, Appl	974	31	48.4	711	2	US-09-134-000C-6056	Sequence 6056, Ap
902	31	48.4	434	2	US-08-232-246A-23	Sequence 23, Appl	975	31	48.4	713	2	US-09-949-016-10902	Sequence 10902, A
903	31	48.4	434	2			976	31	48.4	728	2	US-09-949-016-7213	Sequence 7213, Ap

977 31 48.4 732 2 US-10-104-047-3474 Sequence 3474, Ap  
978 31 48.4 734 2 US-09-134-000C-5602 Sequence 5602, Ap  
979 31 48.4 744 2 US-09-902-540-15347 Sequence 15347, A  
980 31 48.4 750 1 US-08-485-621-2 Sequence 2, Appl1  
981 31 48.4 780 1 US-08-973-831-2 Sequence 2, Appl1  
982 31 48.4 780 4 PCT-US96-09530A-2 Sequence 2, Appl1  
983 31 48.4 812 2 US-09-270-767-57052 Sequence 57052, A  
984 31 48.4 812 2 US-09-270-767-57403 Sequence 57403, A  
985 31 48.4 817 2 US-09-710-279-2948 Sequence 119, App  
986 31 48.4 849 2 US-09-792-024-119 Sequence 2948, Ap  
987 31 48.4 857 2 US-09-248-796A-20522 Sequence 20522, A  
988 31 48.4 886 2 US-09-134-001C-4496 Sequence 4496, Ap  
989 31 48.4 900 1 US-08-630-822A-62 Sequence 62, Appl  
990 31 48.4 900 1 US-09-005-069-62 Sequence 62, Appl  
991 31 48.4 900 2 US-09-171-156A-21 Sequence 21, Appl  
992 31 48.4 900 2 US-09-004-730A-21 Sequence 21, Appl  
993 31 48.4 900 2 US-08-981-799A-21 Sequence 21, Appl  
994 31 48.4 911 2 US-09-688-188B-92 Sequence 92, Appl  
995 31 48.4 911 2 US-09-281-417D-92 Sequence 92, Appl  
996 31 48.4 912 2 US-09-688-188B-26 Sequence 26, Appl  
997 31 48.4 912 2 US-09-291-417D-26 Sequence 26, Appl  
998 31 48.4 917 1 US-08-588-983-16 Sequence 16, Appl  
999 31 48.4 917 1 US-08-588-976-16 Sequence 16, Appl  
1000 31 48.4 966 2 US-09-688-188B-154 Sequence 154, Appl

## ALIGNMENTS

RESULT 1  
US-08-817-811-1  
Sequence 1, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Relf, Wendy A.  
APPLICANT: Good, Michael F.  
APPLICANT: Saul, Allan J.  
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME  
NUMBER OF SEQUENCES: 97  
CORRESPONDENCE ADDRESS:  
ADDRESSES: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/817,811  
FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Highlander, Steven L.  
REGISTRATION NUMBER: 37,642  
REFERENCE/DOCKET NUMBER: FBRC:005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear

Sequence 3474, Ap  
Sequence 5602, Ap  
Sequence 15347, A  
Sequence 2, Appl1  
Sequence 2, Appl1  
Sequence 2, Appl1  
Sequence 57052, A  
Sequence 57403, A  
Sequence 119, App  
Sequence 2948, Ap  
Sequence 20522, A  
Sequence 4496, Ap  
Sequence 62, Appl  
Sequence 62, Appl  
Sequence 21, Appl  
Sequence 21, Appl  
Sequence 21, Appl  
Sequence 92, Appl  
Sequence 92, Appl  
Sequence 26, Appl  
Sequence 26, Appl  
Sequence 16, Appl  
Sequence 16, Appl  
Sequence 154, Appl

US-08-817-811-1  
Query Match 100.0%; Score 64; DB 2; Length 20;  
Best Local Similarity 100.0%; Pred. No. 0.00081;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
DB 7 ASREAKKQVEKALE 20  
QY 1 ASREAKKQVEKALE 14  
|||||  
Db 7 ASREAKKQVEKALE 20

RESULT 2  
US-08-937-271-11  
Sequence 11, Application US/08937271  
Patent No. 6063386  
GENERAL INFORMATION:  
APPLICANT: Dale, James B.  
APPLICANT: Lederer, James W.  
TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN  
TITLE OF INVENTION: VACCINE  
NUMBER OF SEQUENCES: 40  
CORRESPONDENCE ADDRESS:  
ADDRESSES: SEED AND BERRY  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/937,271  
FILING DATE: 15-SEP-1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Roseman, Stephen J.  
REGISTRATION NUMBER: 43,058  
REFERENCE/DOCKET NUMBER: 48112.405C1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 682-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 236 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-937-271-11  
Query Match 100.0%; Score 64; DB 2; Length 236;  
Best Local Similarity 100.0%; Pred. No. 0.0039;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ASREAKKQVEKALE 14  
|||||  
Db 87 ASREAKKQVEKALE 100



; PRIOR FILING DATE: 1995-03-23  
; PRIOR APPLICATION NUMBER: 07/945,860  
; PRIOR FILING DATE: 1992-09-16  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 254  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: An antigen of M5 and a carrier of the  
; OTHER INFORMATION: COOH-terminal portion of M5  
US-08-914-479A-4

Query Match 100.0%; Score 64; DB 2; Length 254;  
Best Local Similarity 100.0%; Pred. No. 0.011;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14  
|||  
Db 105 ASREAKKQVEKALE 118

RESULT 4  
US-08-914-479A-6  
; Sequence 6, Application US/08914479A  
; Patent No. 6419932  
; GENERAL INFORMATION:  
; APPLICANT: Dale, James B.  
; TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER  
; TITLE OF INVENTION: FOR GROUP A STREPTOCOCCAL VACCINE  
; FILE REFERENCE: 481112.404C2  
; CURRENT APPLICATION NUMBER: US/08/914,479A  
; CURRENT FILING DATE: 1997-08-19  
; PRIOR APPLICATION NUMBER: 08/409,270  
; PRIOR FILING DATE: 1995-03-23  
; PRIOR APPLICATION NUMBER: 07/945,860  
; PRIOR FILING DATE: 1992-09-16  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 284  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: An antigen of three fragments of M5 and a carrier  
; OTHER INFORMATION: of the COOH-terminal portion of M5  
US-08-914-479A-6

Query Match 100.0%; Score 64; DB 2; Length 284;  
Best Local Similarity 100.0%; Pred. No. 0.012;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14  
|||  
Db 135 ASREAKKQVEKALE 148

RESULT 5  
US-08-937-271-10  
; Sequence 10, Application US/08937271  
; Patent No. 6063386  
; GENERAL INFORMATION:  
; APPLICANT: Dale, James B.  
; APPLICANT: Lederer, James W.  
; TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN  
; TITLE OF INVENTION: VACCINE  
; NUMBER OF SEQUENCES: 40  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED and BERRY  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: Washington

; COUNTRY: USA  
; ZIP: 98104  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/937,271  
; FILING DATE: 15-SEP-1997  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Rosenman, Stephen J.  
; REGISTRATION NUMBER: 43,058  
; REFERENCE/DOCKET NUMBER: 481112.405C1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 305 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-937-271-10

Query Match 100.0%; Score 64; DB 2; Length 305;  
Best Local Similarity 100.0%; Pred. No. 0.013;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14  
|||  
Db 156 ASREAKKQVEKALE 169

RESULT 6  
US-08-302-756E-35  
; Sequence 35, Application US/08302756E  
; Patent No. 6737521  
; GENERAL INFORMATION:  
; APPLICANT: FISCHETTI, Vincent A.  
; APPLICANT: POZZI, Gianni  
; TITLE OF INVENTION: DELIVERY AND EXPRESSION OF A HYBRID SURFACE PROTEIN ON  
; TITLE OF INVENTION: THE SURFACE OF GRAM POSITIVE BACTERIA  
; FILE REFERENCE: 016921-076  
; CURRENT APPLICATION NUMBER: US/08/302,756E  
; CURRENT FILING DATE: 1995-03-07  
; PRIOR APPLICATION NUMBER: US 07/522,440  
; PRIOR FILING DATE: 1990-05-11  
; PRIOR APPLICATION NUMBER: US 07/742,199  
; PRIOR FILING DATE: 1991-08-05  
; PRIOR APPLICATION NUMBER: US 07/814,823  
; PRIOR FILING DATE: 1991-12-23  
; PRIOR APPLICATION NUMBER: US 07/851,082  
; PRIOR FILING DATE: 1992-03-13  
; PRIOR APPLICATION NUMBER: PCT/US93/02355  
; PRIOR FILING DATE: 1993-03-12  
; NUMBER OF SEQ ID NOS: 61  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 35  
; LENGTH: 440  
; TYPE: PRT  
; ORGANISM: S. pyogenes  
US-08-302-756E-35

Query Match 100.0%; Score 64; DB 2; Length 440;  
Best Local Similarity 100.0%; Pred. No. 0.019;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14  
|||  
Db 292 ASREAKKQVEKALE 305

RESULT 7  
US-08-795-475-6  
Sequence 6, Application US/08795475  
Patent No. 595390  
GENERAL INFORMATION:  
APPLICANT: Bjorck, Lars  
APPLICANT: Sjobring, Ulf  
TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THERIOP  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/795.475  
FILING DATE: 11-FEB-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: McMaisters, David D.  
REGISTRATION NUMBER: 33,963  
REFERENCE/DOCKET NUMBER: 100084.402D1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 443 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-795-475-6  
Query Match 100.0%; Score 64; DB 1; Length 443;  
Best Local Similarity 100.0%; Pred. No. 0.019;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Cy 1 ASREARKOVERKALE 14  
Db 294 ASREARKOVERKALE 307  
RESULT 8  
US-08-325-278B-6  
Sequence 6, Application US/08325278B  
Patent No. 6822075  
GENERAL INFORMATION:  
APPLICANT: Bjorck, Lars  
APPLICANT: Sjobring, Ulf  
TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THERIOP  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed IP Law Group  
STREET: 701 Fifth Avenue Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/325.278B  
FILING DATE: 26-Oct-1994  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Potter, Jane E. R.  
REGISTRATION NUMBER: 33,332  
REFERENCE/DOCKET NUMBER: 100084.402  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 443 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-08-325-278B-6  
Query Match 100.0%; Score 64; DB 2; Length 443;  
Best Local Similarity 100.0%; Pred. No. 0.019;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Cy 1 ASREARKOVERKALE 14  
Db 294 ASREARKOVERKALE 307  
RESULT 9  
US-08-817-811-34  
Sequence 34, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Relf, Wendy A.  
APPLICANT: Good, Michael F.  
APPLICANT: Saul, Allen J.  
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
NUMBER OF SEQUENCES: 97  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/817.811  
FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Highlander, Steven L.  
REGISTRATION NUMBER: 37,642  
REFERENCE/DOCKET NUMBER: FBRC:005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 34:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-817-811-34



Query Match 87.5%; Score 56; DB 2; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.0087;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 ASREAKQVEKA 14  
|||||  
Db 1 ASREAKQVEKA 12

RESULT 10  
US-08-817-811-11  
; Sequence 11, Application US/08817811  
; Patent No. 6174528  
; GENERAL INFORMATION:  
; APPLICANT: Cooper, Juan A.  
; APPLICANT: Reif, Wendy A.  
; APPLICANT: Good, Michael F.  
; APPLICANT: Saul, Allan J.  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
; TITLE OF INVENTION: COMPRISING SAME  
; NUMBER OF SEQUENCES: 97  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Arnold, White & Durkee  
; STREET: P.O. Box 4433  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: USA  
; ZIP: 77210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/817,811  
; FILING DATE: 14-APR-1997  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO 96/11944  
; FILING DATE: 25-APR-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Highlander, Steven L.  
; REGISTRATION NUMBER: 37,642  
; REFERENCE/DOCKET NUMBER: FBRC:005  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 512/418-3000  
; TELEFAX: 512/474-7577  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
US-08-817-811-11

Query Match 85.9%; Score 55; DB 2; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.013;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKQVEKA 12  
|||||  
Db 1 ASREAKQVEKA 12

RESULT 11  
US-08-817-811-32  
; Sequence 32, Application US/08817811  
; Patent No. 6174528  
; GENERAL INFORMATION:  
; APPLICANT: Cooper, Juan A.  
; APPLICANT: Reif, Wendy A.  
; APPLICANT: Good, Michael F.

; APPLICANT: Saul, Allan J.  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
; TITLE OF INVENTION: COMPRISING SAME  
; NUMBER OF SEQUENCES: 97  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Arnold, White & Durkee  
; STREET: P.O. Box 4433  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: USA  
; ZIP: 77210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/817,811  
; FILING DATE: 14-APR-1997  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO 96/11944  
; FILING DATE: 25-APR-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Highlander, Steven L.  
; REGISTRATION NUMBER: 37,642  
; REFERENCE/DOCKET NUMBER: FBRC:005  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 512/418-3000  
; TELEFAX: 512/474-7577  
; INFORMATION FOR SEQ ID NO: 32:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
US-08-817-811-32

Query Match 85.9%; Score 55; DB 2; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.013;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKQVEKA 12  
|||||  
Db 1 ASREAKQVEKA 12

RESULT 12  
US-08-817-811-33  
; Sequence 33, Application US/08817811  
; Patent No. 6174528  
; GENERAL INFORMATION:  
; APPLICANT: Cooper, Juan A.  
; APPLICANT: Reif, Wendy A.  
; APPLICANT: Good, Michael F.  
; APPLICANT: Saul, Allan J.  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
; TITLE OF INVENTION: COMPRISING SAME  
; NUMBER OF SEQUENCES: 97  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Arnold, White & Durkee  
; STREET: P.O. Box 4433  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: USA  
; ZIP: 77210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/817,811

FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Highlander, Steven L.  
REGISTRATION NUMBER: 37,642  
REFERENCE/DOCKET NUMBER: FBRC:005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 33:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-817-811-33

Query Match 85.9%; Score 55; DB 2; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.013;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2 SREAKXQVEKAL 13  
Db 1 SREAKXQVEKAL 12

## RESULT 13

US-08-817-811-18  
Sequence 18, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Relf, Wendy A.  
APPLICANT: Good, Michael F.  
APPLICANT: Saul, Allan J.  
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME  
NUMBER OF SEQUENCES: 97  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/817, 811  
FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Highlander, Steven L.  
REGISTRATION NUMBER: 37,642  
REFERENCE/DOCKET NUMBER: FBRC:005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 18:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear

US-08-817-811-18

Query Match 81.2%; Score 52; DB 2; Length 28;  
Best Local Similarity 78.6%; Pred. No. 0.088;  
Matches 11; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Oy 1 ASREAKXQVEKAL 14  
Db 10 ASREAKXQVEKVK 23

## RESULT 14

US-08-817-811-31  
Sequence 31, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Relf, Wendy A.  
APPLICANT: Good, Michael F.  
APPLICANT: Saul, Allan J.  
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME  
NUMBER OF SEQUENCES: 97  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/817, 811  
FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Highlander, Steven L.  
REGISTRATION NUMBER: 37,642  
REFERENCE/DOCKET NUMBER: FBRC:005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 31:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-817-811-31

Oy 1 ASREAKXQVEK 11  
Db 2 ASREAKXQVEK 12

Query Match 79.7%; Score 51; DB 2; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.053;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 15  
US-08-817-811-17  
Sequence 17, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Relf, Wendy A.

Oy 1 ASREAKXQVEK 11  
Db 2 ASREAKXQVEK 12

```

? APPLICANT: Good, Michael F.
? APPLICANT: Saul, Allan J.
? TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
? TITLE OF INVENTION: COMPRISING SAME
? NUMBER OF SEQUENCES: 97
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Arnold, White & Durkee
? STREET: P.O. Box 4433
? CITY: Houston
? STATE: Texas
? COUNTRY: USA
? ZIP: 77210
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/817,811
? FILING DATE: 14-APR-1997
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: WO 96/11944
? FILING DATE: 25-APR-1996
? ATTORNEY/AGENT INFORMATION:
? NAME: Highlander, Steven L.
? REGISTRATION NUMBER: 37,642
? REFERENCE/DOCKET NUMBER: FBRC:005
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 512/418-3000
? TELEFAX: 512/474-7577
? INFORMATION FOR SEQ ID NO: 17:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 28 amino acids
? TYPE: amino acid
? STRANDEDNESS:
? TOPOLOGY: linear
? US-08-817-811-17

Query Match          74.2%; Score 47.5; DB 2; Length 28;
Best Local Similarity 76.5%; Pred. No. 0.45;
Matches 13; Conservative 0; Mismatches 1; Indels 3; Gaps 1;

Cy      1 ASREAKKQVE---KALE 14
      |||||
Db      11 ASREAKKQVEDKVKOLE 27

RESULT 16
? US-08-817-811-10
? Sequence 10, Application US/08817811
? Patent No. 6174528
? GENERAL INFORMATION:
? APPLICANT: Cooper, Juan A.
? APPLICANT: Reif, Wendy A.
? APPLICANT: Good, Michael F.
? APPLICANT: Saul, Allan J.
? TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
? TITLE OF INVENTION: COMPRISING SAME
? NUMBER OF SEQUENCES: 97
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Arnold, White & Durkee
? STREET: P.O. Box 4433
? CITY: Houston
? STATE: Texas
? COUNTRY: USA
? ZIP: 77210
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/817,811
? FILING DATE: 14-APR-1997
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: WO 96/11944
? FILING DATE: 25-APR-1996
? ATTORNEY/AGENT INFORMATION:
? NAME: Highlander, Steven L.
? REGISTRATION NUMBER: 37,642
? REFERENCE/DOCKET NUMBER: FBRC:005
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 512/418-3000
? TELEFAX: 512/474-7577
? INFORMATION FOR SEQ ID NO: 10:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 12 amino acids
? TYPE: amino acid
? STRANDEDNESS:
? TOPOLOGY: linear
? US-08-817-811-10

Query Match          71.9%; Score 46; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 ASREAKKQVE 10
      |||||
Db      3 ASREAKKQVE 12

RESULT 17
? US-08-817-811-30
? Sequence 30, Application US/08817811
? Patent No. 6174528
? GENERAL INFORMATION:
? APPLICANT: Cooper, Juan A.
? APPLICANT: Reif, Wendy A.
? APPLICANT: Good, Michael F.
? APPLICANT: Saul, Allan J.
? TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
? TITLE OF INVENTION: COMPRISING SAME
? NUMBER OF SEQUENCES: 97
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Arnold, White & Durkee
? STREET: P.O. Box 4433
? CITY: Houston
? STATE: Texas
? COUNTRY: USA
? ZIP: 77210
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/817,811
? FILING DATE: 14-APR-1997
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: WO 96/11944
? FILING DATE: 25-APR-1996
? ATTORNEY/AGENT INFORMATION:
? NAME: Highlander, Steven L.
? REGISTRATION NUMBER: 37,642
? REFERENCE/DOCKET NUMBER: FBRC:005
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 512/418-3000
? TELEFAX: 512/474-7577
? INFORMATION FOR SEQ ID NO: 30:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 12 amino acids
? TYPE: amino acid
? STRANDEDNESS:
```

```

? APPLICATION NUMBER: US/08/817,811
? FILING DATE: 14-APR-1997
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: WO 96/11944
? FILING DATE: 25-APR-1996
? ATTORNEY/AGENT INFORMATION:
? NAME: Highlander, Steven L.
? REGISTRATION NUMBER: 37,642
? REFERENCE/DOCKET NUMBER: FBRC:005
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 512/418-3000
? TELEFAX: 512/474-7577
? INFORMATION FOR SEQ ID NO: 10:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 12 amino acids
? TYPE: amino acid
? STRANDEDNESS:
? TOPOLOGY: linear
? US-08-817-811-10

Query Match          71.9%; Score 46; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 ASREAKKQVE 10
      |||||
Db      3 ASREAKKQVE 12

RESULT 17
? US-08-817-811-30
? Sequence 30, Application US/08817811
? Patent No. 6174528
? GENERAL INFORMATION:
? APPLICANT: Cooper, Juan A.
? APPLICANT: Reif, Wendy A.
? APPLICANT: Good, Michael F.
? APPLICANT: Saul, Allan J.
? TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
? TITLE OF INVENTION: COMPRISING SAME
? NUMBER OF SEQUENCES: 97
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Arnold, White & Durkee
? STREET: P.O. Box 4433
? CITY: Houston
? STATE: Texas
? COUNTRY: USA
? ZIP: 77210
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/817,811
? FILING DATE: 14-APR-1997
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: WO 96/11944
? FILING DATE: 25-APR-1996
? ATTORNEY/AGENT INFORMATION:
? NAME: Highlander, Steven L.
? REGISTRATION NUMBER: 37,642
? REFERENCE/DOCKET NUMBER: FBRC:005
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 512/418-3000
? TELEFAX: 512/474-7577
? INFORMATION FOR SEQ ID NO: 30:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 12 amino acids
? TYPE: amino acid
? STRANDEDNESS:
```

TOPOLOGY: linear  
US-08-817-811-30

Query Match 71.9%; Score 46; DB 2; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.33;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVE 10  
Db 3 ASREAKKQVE 12

RESULT 18  
US-08-817-811-38  
Sequence 38, Application US/08817811  
Patent No. 6174528

GENERAL INFORMATION:

APPLICANT: Cooper, Juan A.  
APPLICANT: Reif, Wendy A.  
APPLICANT: Good, Michael F.

APPLICANT: Saul, Allan J.

TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME

NUMBER OF SEQUENCES: 97

CORRESPONDENCE ADDRESSES:

ADDRESSER: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/817,811

FILING DATE: 14-APR-1997

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: WO 96/11944

FILING DATE: 25-APR-1996

ATTORNEY/AGENT INFORMATION:

NAME: Highlander, Steven L.

REGISTRATION NUMBER: 37,642

REFERENCE/DOCKET NUMBER: FBRC:005

TELECOMMUNICATION INFORMATION:

TELEPHONE: 512/418-3000

TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 38:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

Query Match 71.9%; Score 46; DB 2; Length 20;  
Best Local Similarity 100.0%; Pred. No. 0.55;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AKKQVERALE 14  
Db 1 AKKQVERALE 10

RESULT 19  
US-08-817-811-16

Sequence 16, Application US/08817811  
Patent No. 6174528

GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.

APPLICANT: Reif, Wendy A.  
APPLICANT: Good, Michael F.

APPLICANT: Saul, Allan J.

TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME

NUMBER OF SEQUENCES: 97

CORRESPONDENCE ADDRESSES:

ADDRESSER: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/817,811

FILING DATE: 14-APR-1997

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: WO 96/11944

FILING DATE: 25-APR-1996

ATTORNEY/AGENT INFORMATION:

NAME: Highlander, Steven L.

REGISTRATION NUMBER: 37,642

REFERENCE/DOCKET NUMBER: FBRC:005

TELECOMMUNICATION INFORMATION:

TELEPHONE: 512/418-3000

TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

Query Match 69.5%; Score 44.5; DB 2; Length 28;  
Best Local Similarity 70.6%; Pred. No. 1.3;  
Matches 12; Conservative 1; Mismatches 1; Indels 3; Gaps 1;

QY 1 ASREAKKQVE---KALE 14  
Db 12 ASREAKKQVQDKKQKQLE 26

RESULT 20  
US-08-937-271-18

Sequence 18, Application US/08937271  
Patent No. 6063386

GENERAL INFORMATION:

APPLICANT: Dale, James B.

APPLICANT: Lederer, James W.

TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN

TITLE OF INVENTION: VACCINE

NUMBER OF SEQUENCES: 40

CORRESPONDENCE ADDRESSES:

ADDRESSER: SEED and BERRY

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,271

FILING DATE: 15-SEP-1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Roseman, Stephen J.  
REGISTRATION NUMBER: 43,058  
REFERENCE/DOCKET NUMBER: 481112.405C1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 18:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 94 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-937-271-18

Query Match 67.2%; Score 43; DB 2; Length 94;  
Best Local Similarity 90.0%; Pred. No. 7.8;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKQVE 10  
| | | | | | | | | |  
Db 17 ASREAKQVE 26

RESULT 21  
US-08-937-271-17

Sequence 17, Application US/08937271  
Patent No. 6063386  
GENERAL INFORMATION:  
APPLICANT: Dale, James B.  
TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN  
NUMBER OF INVENTION: VACCINE  
NUMBER OF SEQUENCES: 40  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: SEED and BERRY  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/937,271  
FILING DATE: 15-SEP-1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Roseman, Stephen J.  
REGISTRATION NUMBER: 43,058  
REFERENCE/DOCKET NUMBER: 481112.405C1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 343 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-937-271-17

Query Match 67.2%; Score 43; DB 2; Length 343;  
Best Local Similarity 90.0%; Pred. No. 29;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ASREAKQVE 10  
| | | | | | | | | |

Db 266 ASREAKQVE 275

RESULT 22  
5210183-3  
Patent No. 5210183  
APPLICANT: LINDAHL, GUNNAR, FRITZ, ELISABET, HEDEN, LARS-OLOF  
TITLE OF INVENTION: PROTEIN ARP, WITH IMMUNOGLOBULIN A  
BINDING ACTIVITY, THE CORRESPONDING VECTORS AND HOSTS, REAGENT  
KIT AND PHARMACEUTICAL COMPOSITION  
NUMBER OF SEQUENCES: 3  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/270,099  
FILING DATE: 14-NOV-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 186,097  
FILING DATE: 25-APR-1988  
SEQ ID NO: 3  
LENGTH: 683  
5210183-3

Query Match 67.2%; Score 43; DB 6; Length 683;  
Best Local Similarity 76.9%; Pred. No. 58;  
Matches 10; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ASREAKQVEAL 13  
| | | | | | | | | |  
Db 515 ASREAKQVEAL 527

RESULT 23  
US-08-464-531-83

Sequence 83, Application US/08464531  
Patent No. 5789184  
GENERAL INFORMATION:  
APPLICANT: FOWLES, Dana M.  
APPLICANT: BROACH, Jim  
APPLICANT: MANFREDI, John  
APPLICANT: KLEIN, Christine  
APPLICANT: MURPHY, Andrew J.  
APPLICANT: PAUL, Jeremy  
TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE  
NUMBER OF SEQUENCES: 119  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: BROWDY AND NETWAK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/464,531  
FILING DATE: 05-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/322,137  
FILING DATE: 13-OCT-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/309,313  
FILING DATE: 20-SEP-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/190,328  
FILING DATE: 31-JAN-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/041,431  
FILING DATE: 31-MAR-1993

ATTORNEY/AGENT INFORMATION:  
NAME: COOPER, Iver P.  
REGISTRATION NUMBER: 28, 005  
REFERENCE/DOCKET NUMBER: FOLWKS=2C  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-628-5197  
TELEFAX: 202-737-3528  
TELEX: 248633  
INFORMATION FOR SEQ ID NO: 83:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 65 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-464-531-83

Query Match 65.6%; Score 42; DB 1; Length 65;  
Best Local Similarity 57.1%; Pred. No. 7.7;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 ASREAKKOVEKALE 14  
Db 18 AGRANKIKKQ 31

RESULT 24  
US-08-461-598-83  
Sequence 83, Application US/08461598  
Patent No. 5876951  
GENERAL INFORMATION:  
APPLICANT: FOLWKS, Dana M.  
APPLICANT: BROACH, Jim  
APPLICANT: MANFREDI, John  
APPLICANT: KLEIN, Christine  
APPLICANT: MURPHY, Andrew J.  
APPLICANT: PAUL, Jeremy  
APPLICANT: TRUEHEART, Joshua  
TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE  
TITLE OF INVENTION: PHEROMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR  
NUMBER OF SEQUENCES: 119  
CORRESPONDENCE ADDRESS:  
ADDRESSER: BROWDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/461,598  
FILING DATE: 05-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/322,137  
FILING DATE: 13-OCT-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/309,313  
FILING DATE: 20-SEP-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/190,328  
FILING DATE: 31-JAN-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/041,431  
FILING DATE: 31-MAR-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: COOPER, Iver P.  
REGISTRATION NUMBER: 28, 005  
REFERENCE/DOCKET NUMBER: FOLWKS=2F

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-628-5197  
TELEFAX: 202-737-3528  
TELEX: 248633  
INFORMATION FOR SEQ ID NO: 83:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 65 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-461-598-83

Query Match 65.6%; Score 42; DB 1; Length 65;  
Best Local Similarity 57.1%; Pred. No. 7.7;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 ASREAKKOVEKALE 14  
Db 18 AGRANKIKKQ 31

RESULT 25  
US-08-322-137-83  
Sequence 83, Application US/08322137  
Patent No. 610042  
GENERAL INFORMATION:  
APPLICANT: FOLWKS, Dana M.  
APPLICANT: BROACH, Jim  
APPLICANT: MANFREDI, John  
APPLICANT: KLEIN, Christine  
APPLICANT: MURPHY, Andrew J.  
APPLICANT: PAUL, Jeremy  
APPLICANT: TRUEHEART, Joshua  
TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE  
TITLE OF INVENTION: PHEROMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR  
NUMBER OF SEQUENCES: 119  
CORRESPONDENCE ADDRESS:  
ADDRESSER: BROWDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/322,137  
FILING DATE: 13-OCT-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/309,313  
FILING DATE: 20-SEP-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/190,328  
FILING DATE: 31-JAN-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/041,431  
FILING DATE: 31-MAR-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: COOPER, Iver P.  
REGISTRATION NUMBER: 28, 005  
REFERENCE/DOCKET NUMBER: FOLWKS=2C  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-628-5197  
TELEFAX: 202-737-3528  
TELEX: 248633  
INFORMATION FOR SEQ ID NO: 83:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 65 amino acids

TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-322-137-83

Query Match 65.6%; Score 42; DB 2; Length 65;  
Best Local Similarity 57.1%; Pred. No. 7.7;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

OY 1 ASREAKQVEKALE 14  
| ||| |::|| |:  
Db 18 AGRANKKIKKQLQ 31

RESULT 26  
US-08-307-896-1  
Sequence 1, Application US/08307896C  
Patent No. 6034071  
GENERAL INFORMATION:  
APPLICANT: Iyengar, Srinivas Ravi  
TITLE OF INVENTION: MUTANT ACTIVATED GSALPHA AND ADENYLYL  
TITLE OF INVENTION: CYCLASE 2 FOR USE AS THERAPEUTIC AGENTS  
FILE REFERENCE: 29770  
CURRENT APPLICATION NUMBER: US/08/307,896C  
CURRENT FILING DATE: 1994-09-16  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 1  
LENGTH: 380  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-08-307-896-1

Query Match 65.6%; Score 42; DB 2; Length 380;  
Best Local Similarity 57.1%; Pred. No. 46;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

OY 1 ASREAKQVEKALE 14  
| ||| |::|| |:  
Db 18 AGRANKKIKKQLQ 31

RESULT 27  
US-09-442-349A-106  
Sequence 106, Application US/09442349A  
Patent No. 6462178  
GENERAL INFORMATION:  
APPLICANT: Wong, Yung H  
TITLE OF INVENTION: G Protein  
FILE REFERENCE: M99/0101/US  
CURRENT APPLICATION NUMBER: US/09/442,349A  
CURRENT FILING DATE: 1999-11-17  
NUMBER OF SEQ ID NOS: 116  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 106  
LENGTH: 394  
TYPE: PRT  
ORGANISM: Rattus sp.  
US-09-442-349A-106

Query Match 65.6%; Score 42; DB 2; Length 394;  
Best Local Similarity 57.1%; Pred. No. 48;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

OY 1 ASREAKQVEKALE 14  
| ||| |::|| |:  
Db 18 AGRANKKIKKQLQ 31

RESULT 28  
PCT-US95-11808-1  
Sequence 1, Application PC/TUS9511808

GENERAL INFORMATION:  
APPLICANT: Iyengar, Srinivas Ravi V.  
TITLE OF INVENTION: MUTANT ACTIVATED GSALPHA AND  
TITLE OF INVENTION: ADENYLYL  
TITLE OF INVENTION: CYCLASE 2 FOR USE AS THERAPEUTIC AGENTS  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Brumbaugh, Graves, Donohue and  
ADDRESSER: Raymond  
STREET: 30 Rockefeller Plaza  
CITY: New York  
STATE: New York  
COUNTRY: U.S.  
ZIP: 10112-0228  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/11808  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/307,896  
FILING DATE: 16-SEP-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Clark, Richard S.  
REGISTRATION NUMBER: 26,154  
REFERENCE/DOCKET NUMBER: 29970 165/28755  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 408-2500  
TELEFAX: (212) 765-2519  
TELEX: 650 6111063  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 394 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:  
ORGANISM: GSALPHA  
PCT-US95-11808-1

Query Match 65.6%; Score 42; DB 4; Length 394;  
Best Local Similarity 57.1%; Pred. No. 48;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

OY 1 ASREAKQVEKALE 14  
| ||| |::|| |:  
Db 18 AGRANKKIKKQLQ 31

RESULT 29  
US-09-902-540-12745  
Sequence 12745, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Miesgard, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(115849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 12745  
LENGTH: 409  
TYPE: PRT

```

; ORGANISM: Myxococcus xanthus
US-09-902-540-12745

Query Match      65.6%; Score 42; DB 2; Length 409;
Best Local Similarity 57.1%; Pred. No. 50;
Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      1 ASREAKQOVERALE 14
Db      230 AQRANKKIKERLE 243

RESULT 30
US-09-513-838-6
; Sequence 6, Application US/09513838
; Patent No. 6420563
; GENERAL INFORMATION:
; APPLICANT: Beeley, Nigel R
; APPLICANT: Behan, Dominic P
; APPLICANT: Chalmers, Derek T
; APPLICANT: Menzaghi, Frederique
; APPLICANT: Strah-Pleyret, Sonja
; TITLE OF INVENTION: Small Molecule Modulators of G Protein-Coupled Receptor
; TITLE OF INVENTION: Six
; FILE REFERENCE: AREN0058
; CURRENT FILING DATE: US/09/513, 838
; EARLIER FILING DATE: 2000-02-25
; EARLIER APPLICATION NUMBER: 09/364,425
; EARLIER FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,879
; EARLIER FILING DATE: 1998-07-31
; EARLIER APPLICATION NUMBER: 60/106,300
; EARLIER FILING DATE: 1998-10-30
; EARLIER APPLICATION NUMBER: 60/110,906
; EARLIER FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: 60/121,851
; EARLIER FILING DATE: 1999-02-26
; EARLIER APPLICATION NUMBER: 60/173,850
; EARLIER FILING DATE: 1999-12-30
; EARLIER APPLICATION NUMBER: 60/174,428
; EARLIER FILING DATE: 2000-01-04
; EARLIER APPLICATION NUMBER: 09/364,425
; EARLIER FILING DATE: 1999-07-30
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 775
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-513-838-6

Query Match      65.6%; Score 42; DB 2; Length 775;
Best Local Similarity 57.1%; Pred. No. 95;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      1 ASREAKQOVERALE 14
Db      399 AQRANKKIKERLO 412

RESULT 31
US-10-314-048A-100
; Sequence 100, Application US/10314048A
; Patent No. 6902902
; GENERAL INFORMATION:
; APPLICANT: Unett, David J.
; APPLICANT: Chen, Ruoping
; APPLICANT: Richman, Jeremy
; APPLICANT: Connolly, Daniel
; APPLICANT: Dang, Huong T.
; APPLICANT: Choi, Bryan
; APPLICANT: Leonard, James
; APPLICANT: Hakak, Yaron
```

```

; APPLICANT: Liaw, Chen
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lerner, Michael
; TITLE OF INVENTION: Human G Protein-Coupled Receptors and Modulators Thereof
; TITLE OF INVENTION: for the Treatment of Metabolic-Related Disorders
; FILE REFERENCE: 22.US6.CIP
; CURRENT APPLICATION NUMBER: US/10/314,048A
; CURRENT FILING DATE: 2002-12-06
; PRIOR APPLICATION NUMBER: 10/096,511
; PRIOR FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 09/995,543
; PRIOR FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: 60/399,917
; PRIOR FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 60/404,761
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: 60/410,747
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 100
; LENGTH: 869
; TYPE: PRT
; ORGANISM: Homo sapiens and Rat
US-10-314-048A-100

Query Match      65.6%; Score 42; DB 2; Length 869;
Best Local Similarity 57.1%; Pred. No. 116+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      1 ASREAKQOVERALE 14
Db      493 AQRANKKIKERLO 506

RESULT 32
US-10-314-048A-104
; Sequence 104, Application US/10314048A
; Patent No. 6902902
; GENERAL INFORMATION:
; APPLICANT: Unett, David J.
; APPLICANT: Chen, Ruoping
; APPLICANT: Richman, Jeremy
; APPLICANT: Connolly, Daniel
; APPLICANT: Dang, Huong T.
; APPLICANT: Choi, Bryan
; APPLICANT: Leonard, James
; APPLICANT: Liaw, Chen
; APPLICANT: Liaw, Yaron
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lerner, Michael
; TITLE OF INVENTION: Human G Protein-Coupled Receptors and Modulators Thereof
; TITLE OF INVENTION: for the Treatment of Metabolic-Related Disorders
; FILE REFERENCE: 22.US6.CIP
; CURRENT APPLICATION NUMBER: US/10/314,048A
; CURRENT FILING DATE: 2002-12-06
; PRIOR APPLICATION NUMBER: 10/096,511
; PRIOR FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 09/995,543
; PRIOR FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: 60/399,917
; PRIOR FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 60/404,761
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: 60/410,747
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 104
```



LENGTH: 926  
TYPE: PRT  
ORGANISM: Homo sapiens and Rat  
US-10-314-048A-104

Query Match 65.6%; Score 42; DB 2; Length 926;  
Best Local Similarity 57.1%; Pred. No. 1.1e+02;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy 1 ASREAKKOVEKALE 14  
Db 550 AQRANKKIKKQLQ 563

RESULT 33  
US-09-826-509-587  
Sequence 587, Application US/09826509  
Patent No. 6806054  
GENERAL INFORMATION:  
APPLICANT: Lehmann-Brinnsma, Karin  
APPLICANT: Liaw, Chen W.  
TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G  
FILE REFERENCE: AREN-207  
CURRENT FILING DATE: 2001-04-05  
PRIOR APPLICATION NUMBER: 60/195,747  
PRIOR FILING DATE: 2000-04-07  
PRIOR APPLICATION NUMBER: 09/170,496  
PRIOR FILING DATE: 1998-10-13  
NUMBER OF SEQ ID NOS: 589  
SOFTWARE: PatentIn Version 2.1  
SEQ ID NO 587  
LENGTH: 1181  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-826-509-587

Query Match 65.6%; Score 42; DB 2; Length 1181;  
Best Local Similarity 57.1%; Pred. No. 1.5e+02;  
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy 1 ASREAKKOVEKALE 14  
Db 805 AQRANKKIKKQLQ 818

RESULT 34  
US-08-817-811-67  
Sequence 67, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Relf, Wendy A.  
APPLICANT: Good, Michael F.  
APPLICANT: Saul, Allan J.  
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME  
NUMBER OF SEQUENCES: 97  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/817,811  
FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Highlander, Steven L.  
REGISTRATION NUMBER: 37,642  
REFERENCE/DOCKET NUMBER: FBRC:005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 67:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-817-811-67

Query Match 64.8%; Score 41.5; DB 2; Length 28;  
Best Local Similarity 64.7%; Pred. No. 3.9;  
Matches 11; Conservative 2; Mismatches 1; Indels 3; Gaps 1;

Oy 1 ASREAKKOVE---KALE 14  
Db 12 ASREAKKQLDQKVKQLE 28

RESULT 35  
US-08-817-811-29  
Sequence 29, Application US/08817811  
Patent No. 6174528  
GENERAL INFORMATION:  
APPLICANT: Cooper, Juan A.  
APPLICANT: Relf, Wendy A.  
APPLICANT: Good, Michael F.  
APPLICANT: Saul, Allan J.  
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES  
TITLE OF INVENTION: COMPRISING SAME  
NUMBER OF SEQUENCES: 97  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/817,811  
FILING DATE: 14-APR-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO 96/11944  
FILING DATE: 25-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Highlander, Steven L.  
REGISTRATION NUMBER: 37,642  
REFERENCE/DOCKET NUMBER: FBRC:005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
STRANDEDNESS:

TOPOLOGY: linear  
US-08-817-811-29

Query Match 64.1%; Score 41; DB 2; Length 12;  
Best Local Similarity 100.0%; Pred. No. 2;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKOV 9  
|||||  
Db 4 ASREAKKOV 12

RESULT 36  
US-08-960-022-14

Sequence 14, Application US/08960022  
Patent No. 5976837

GENERAL INFORMATION:

APPLICANT: Jacobs, Kenneth

APPLICANT: McCoy, John M.

APPLICANT: Lavallee, Edward R.

APPLICANT: Racie, Lisa A.

APPLICANT: Merberg, David

APPLICANT: Treacy, Maurice

APPLICANT: Spaulding, Vikki

APPLICANT: Agostino, Michael J.

TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES

TITLE OF INVENTION: ENCODING THEM

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genetics Institute, Inc.

STREET: 87 Cambridgepark Drive

CITY: Cambridge

STATE: MA

COUNTRY: U.S.A.

ZIP: 02140

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/960,022

FILING DATE:

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: Sprunger, Suzanne A.

REGISTRATION NUMBER: 41,323

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 498-8284

TELEFAX: (617) 876-5851

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 514 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-960-022-14

Query Match 64.1%; Score 41; DB 1; Length 514;  
Best Local Similarity 66.7%; Pred. No. 90;  
Matches 8; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 REAKKOVKALE 14  
|||||  
Db 407 REAKKOVKALE 418

RESULT 37  
US-08-817-811-15

Sequence 15, Application US/08817811  
Patent No. 6174528

GENERAL INFORMATION:

APPLICANT: Cooper, Juan A.  
APPLICANT: Relf, Wendy A.  
APPLICANT: Good, Michael F.

APPLICANT: Saul, Allen J.

TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES

TITLE OF INVENTION: COMPRISING SAME

NUMBER OF SEQUENCES: 97

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/817,811

FILING DATE: 14-Apr-1997

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: WO 96/11944

FILING DATE: 25-Apr-1996

ATTORNEY/AGENT INFORMATION:

NAME: Highlander, Steven L.

REGISTRATION NUMBER: 37,642

REFERENCE/DOCKET NUMBER: PBRC:005

TELECOMMUNICATION INFORMATION:

TELEPHONE: 512/418-3000

TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

US-08-817-811-15

Query Match 62.5%; Score 40; DB 2; Length 28;  
Best Local Similarity 80.0%; Pred. No. 6.8;  
Matches 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKOV 10  
|||||  
Db 13 ASREAKKOV 22

RESULT 38  
US-09-583-110-4222

Sequence 4222, Application US/09583110

Patent No. 669703

GENERAL INFORMATION:

APPLICANT: Lynn Doucette-Stamm et al.

TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus

TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics

FILE REFERENCE: PAT00-07A

CURRENT APPLICATION NUMBER: US/09/583,110

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: US 09/107,433

PRIOR FILING DATE: 1998-06-30

PRIOR APPLICATION NUMBER: US 60/085,131

PRIOR FILING DATE: 1998-05-12

PRIOR APPLICATION NUMBER: US 60/051,553

PRIOR FILING DATE: 1997-07-02

NUMBER OF SEQ ID NOS: 5322

SEQ ID NO 4222

LENGTH: 64

TYPE: PRT

ORGANISM: Streptococcus pneumoniae

US-09-583-110-4222

Query Match 60.9%; Score 39; DB 2; Length 64;  
Best Local Similarity 69.2%; Pred. No. 23;  
Matches 9; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVEKAL 13  
||:|||||  
Db 5 ASREAKQVSKAL 17

RESULT 39  
US-09-513-999C-4696  
Sequence 4696, Application US/09513999C  
Patent No. 6783961  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, J.B.  
APPLICANT: Ductert, A.  
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
Patent No. 6783961  
FILE REFERENCE: 59, US2, REG  
CURRENT APPLICATION NUMBER: US/09/513,999C  
CURRENT FILING DATE: 2000-02-24  
PRIOR APPLICATION NUMBER: US 60/122,487  
PRIOR FILING DATE: 1999-02-26  
NUMBER OF SEQ ID NOS: 36681  
SOFTWARE: Patent.pm  
SEQ ID NO 4696  
LENGTH: 85  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURES:  
NAME/KEY: SIGNAL  
LOCATION: -45..-1  
OTHER INFORMATION: score 6.7  
OTHER INFORMATION: seq PMLGLAARFWIS/RE  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 35  
OTHER INFORMATION: Xaa=Asp or Glu  
US-09-513-999C-4696

Query Match 60.9%; Score 39; DB 2; Length 85;  
Best Local Similarity 61.5%; Pred. No. 30;  
Matches 8; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 2 SREAKQVEKAL 14  
||:|||||  
Db 45 SRESQKEVEKERE 57

RESULT 40  
US-09-107-433-3416  
Sequence 3416, Application US/09107433  
Patent No. 6800744  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNO  
THERAPEUTICS  
NUMBER OF SEQUENCES: 5206  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: <Unknown>  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Ariniello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 3416:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 96 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Streptococcus pneumoniae  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...96  
SEQUENCE DESCRIPTION: SEQ ID NO: 3416:  
US-09-107-433-3416

Query Match 60.9%; Score 39; DB 2; Length 96;  
Best Local Similarity 69.2%; Pred. No. 34;  
Matches 9; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVEKAL 13  
||:|||||  
Db 37 ASREAKQVSKAL 49

RESULT 41  
US-09-964-956-19  
Sequence 19, Application US/09964956  
Patent No. 6875570  
GENERAL INFORMATION:  
APPLICANT: Gerlach, Valerie L  
APPLICANT: MacDougall, John R  
APPLICANT: Smithson, Glenda  
APPLICANT: Miller, Isabelle  
APPLICANT: Stone, David  
APPLICANT: Gunther, Erik  
APPLICANT: Ellerman, Karen  
APPLICANT: Groves, William M  
APPLICANT: Alsobrook II, John P  
APPLICANT: Lepley, Denise M  
APPLICANT: Burgess, Catherine B  
APPLICANT: Padigaru, Muralidhara  
APPLICANT: Kekuda, Ramesh  
APPLICANT: Spytek, Kimberly A  
APPLICANT: Leach, Martin D  
TITLE OF INVENTION: No. 6875570el Proteins and Nucleic Acids Encoding Same  
FILE REFERENCE: 21402-124  
CURRENT APPLICATION NUMBER: US/09/964,956  
CURRENT FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/235,631  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: 60/235,633  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: 60/235,808  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: 60/236,064  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: 60/236,065

```

; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: 60/238,399
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/238,396
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/276,667
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/294,823
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/304,868
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-956-19

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```

Query Match      60.9%; Score 39; DB 2; Length 442;
Best Local Similarity 72.7%; Pred. No. 1.6e+02;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 ASREAKKQVEK 11
Db      317 ASQEAQKQVEK 327

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```

RESULT 42
; Sequence 21, Application US/09964956
; Patent No. 6875570
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L.
; APPLICANT: MacDougall, John R.
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grose, William M.
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Burgess, Catherine E.
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Leach, Martin D.
; APPLICANT: Shinkels, Richard A.
; TITLE OF INVENTION: No. 6875570e1 Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27

```

```

; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: 60/238,399
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/238,396
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/276,667
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/294,823
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/304,868
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-956-21

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```

Query Match      60.9%; Score 39; DB 2; Length 442;
Best Local Similarity 72.7%; Pred. No. 1.6e+02;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 ASREAKKQVEK 11
Db      317 ASQEAQKQVEK 327

```

```

RESULT 43
; Sequence 23, Application US/09964956
; Patent No. 6875570
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L.
; APPLICANT: MacDougall, John R.
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grose, William M.
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Burgess, Catherine E.
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Leach, Martin D.
; APPLICANT: Shinkels, Richard A.
; TITLE OF INVENTION: No. 6875570e1 Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434

```

```
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: 60/238,399
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/238,396
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/276,667
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/294,823
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/304,868
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 23
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-956-23
```

```
Query Match          60.9%; Score 39; DB 2; Length 442;
Best Local Similarity 72.7%; Pred. No. 1.6e+02;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1 ASRAKKOVER 11
        ||:||||:|
Db      317 ASORAKOVER 327
```

## RESULT 44

```
US-09-964-956-55
; Sequence 55, Application US/09964956
; Patent No. 6875570
```

## GENERAL INFORMATION:

```
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Macdougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grose, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine R
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shinkets, Richard A
; TITLE OF INVENTION: No. 6875570e1 Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
```

```
; PRIOR APPLICATION NUMBER: 60/238,399
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/238,396
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/276,667
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/294,823
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/304,868
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 55
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-956-55
```

```
Query Match          60.9%; Score 39; DB 2; Length 442;
Best Local Similarity 72.7%; Pred. No. 1.6e+02;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1 ASRAKKOVER 11
        ||:||||:|
Db      317 ASORAKOVER 327
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## RESULT 45

```
US-09-964-956-56
; Sequence 56, Application US/09964956
; Patent No. 6875570
```

## GENERAL INFORMATION:

```
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Macdougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine R
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shinkets, Richard A
; TITLE OF INVENTION: No. 6875570e1 Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: 60/238,399
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/238,396
```

```

; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/276,667
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/294,823
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/304,868
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 56
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-956-56

Query Match
Best Local Similarity 72.7%; Score 39; DB 2; Length 442;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
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QY 1 ASREAKKOVEK 11
||:||||:||||
Db 317 ASQRAKKOVEK 327

RESULT 46
US-09-270-767-45471
; Sequence 45471, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45471
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-45471
```

```
Query Match
Best Local Similarity 60.9%; Score 39; DB 2; Length 459;
Matches 7; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ASREAKKOVEK 13
||:||||:||||
Db 287 ASQRAKKOVEK 299

RESULT 47
US-08-817-811-8
; Sequence 8, Application US/08817811
; Patent No. 6174528
; GENERAL INFORMATION:
; APPLICANT: Cooper, Juan A.
; APPLICANT: Relf, Wendy A.
; APPLICANT: Good, Michael F.
; APPLICANT: Saul, Allan J.
; TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
; TITLE OF INVENTION: COMPRISING SAME
; NUMBER OF SEQUENCES: 97
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/817,811
; FILING DATE: 14-Apr-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO 96/11944
; FILING DATE: 25-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Highlander, Steven L.
; REGISTRATION NUMBER: 37,642
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512/418-3000
; TELEFAX: 512/474-7577
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-817-811-8
```

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Query Match
Best Local Similarity 59.4%; Score 38; DB 2; Length 8;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 3 REAKKOVE 10
|||||
Db 1 REAKKOVE 8

RESULT 48
5304631-14
; Patent No. 5304631
; APPLICANT: STEWART, JOHN M.; HAHN, KARL W.; KLIS, WISLAW A.
; TITLE OF INVENTION: SYNTHETIC HELIXIYME ENZYMES
; NUMBER OF SEQUENCES: 16
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/464,932
; FILING DATE: 16-JAN-1990
; SEQ ID NO:14
; LENGTH: 19
5304631-14
```

```
Query Match
Best Local Similarity 59.4%; Score 38; DB 6; Length 19;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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```
QY 4 EAKKOVEKALE 14
||||:||||
Db 3 EAKKAKKALE 13

RESULT 49
US-09-248-796A-27030
; Sequence 27030, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Melnick et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 27030
; LENGTH: 78
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; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-27030

Query Match 59.4%; Score 38; DB 2; Length 78;  
Best Local Similarity 42.9%; Pred. No. 40;  
Matches 6; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

OY 1 ASREAKKOVERKALE 14  
:|::|||:|::|  
Db 9 SSKKKKKOISKSME 22

RESULT 50  
US-09-861-451A-58  
; Sequence 58, Application US/09861451A  
; Patent No. 6759516  
; GENERAL INFORMATION:  
; APPLICANT: Commonwealth Scientific & Industrial Research Orga  
; TITLE OF INVENTION: Methods of Identifying Antigen Gene Sequences  
; FILE REFERENCE: PF34033/01  
; CURRENT APPLICATION NUMBER: US/09/861,451A  
; CURRENT FILING DATE: 2001-05-21  
; PRIOR APPLICATION NUMBER: PF7273  
; NUMBER OF SEQ ID NOS: 84  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 58  
; LENGTH: 174  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Deduced protein  
; OTHER INFORMATION: sequence from clone pAD984  
US-09-861-451A-58

Query Match 59.4%; Score 38; DB 2; Length 174;  
Best Local Similarity 53.8%; Pred. No. 89;  
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

OY 2 SREAKKOVERKALE 14  
:|::|||:|::|  
Db 124 TREIKKIKIKIKALE 136

Search completed: March 28, 2006, 19:03:56  
Job time : 58 secs

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